THE NEXT-GEN

AI FDE

AI FORWARD DEPLOYED ENGINEER

FULL-STACK AI ENGINEERING

Build, integrate, deploy and deliver real-world AI solutions.

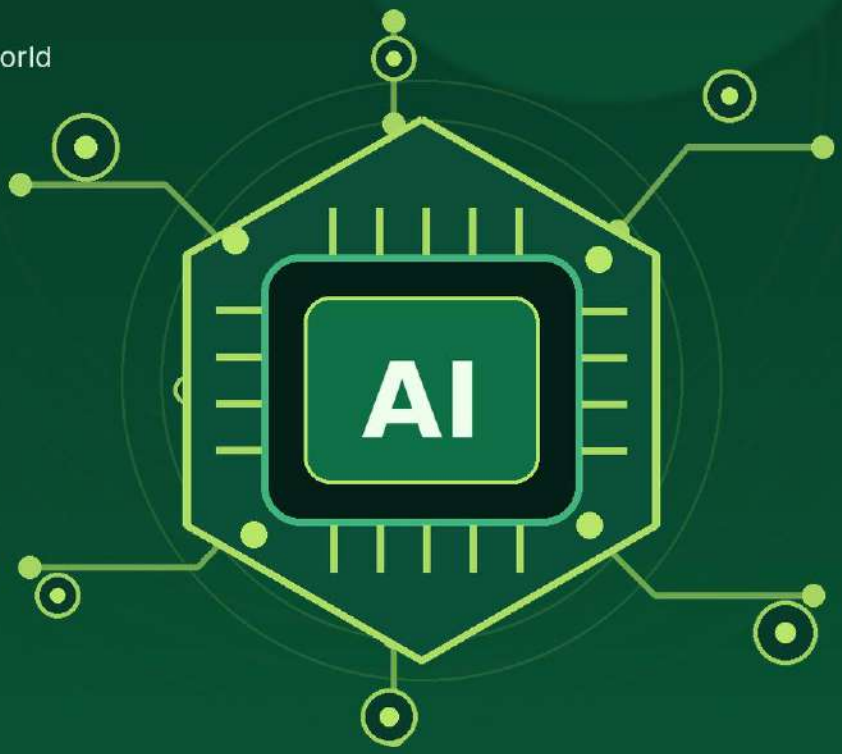
LLMs

RAG

AGENTS

CLOUD

PRODUCTION



17
CURRICULUM MODULES

PROJECTS
APPLIED LEARNING

FDE
CUSTOMER DELIVERY

ENGINEERING FOUNDATIONS / FULL-STACK & CLOUD / AI / ENTERPRISE DELIVERY

LEARN TODAY. BUILD WHAT MATTERS.

FROM FOUNDATIONS

TO FIELD DELIVERY

A structured path across software engineering, cloud, AI and enterprise delivery.

01 ENGINEERING FOUNDATIONS

Modules 01–03

- Python & Linux
- Software engineering & Git
- Databases & data engineering



Start with the core skills behind reliable applications and data workflows.

02 FULL-STACK & CLOUD

Modules 04–08

- Backend & APIs
- Frontend & AI UX
- Cloud, containers & system design

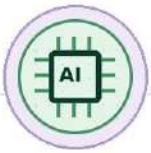


Build the application and infrastructure layers that bring products to life.

03 AI ENGINEERING

Modules 09–13

- LLMs & GenAI
- RAG & knowledge systems
- Agents, multimodal & AI safety



Move from model concepts to grounded, orchestrated, production-aware AI.

04 ENTERPRISE & FIELD DELIVERY

Modules 14–17

- Enterprise integration
- Identity & security
- Customer delivery & production



Connect systems, work with customer needs and prepare solutions for operations.

THE LEARNING LOOP

LEARN 1 — BUILD 2 — DEPLOY 3 — DELIVER 4

The curriculum combines technical foundations, applied mini-projects, architecture thinking, AI engineering and customer-focused delivery.

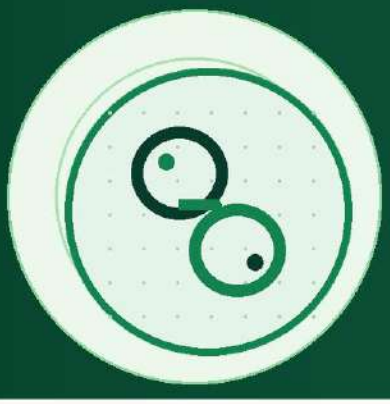
17 MODULE MINI-PROJECTS → OMNIGUARD

Applied learning throughout the curriculum, brought together in the final FDE capstone.

01 PHASE 1 / ENGINEERING FOUNDATIONS

MODULE 01

Python & Linux Foundations



Start with the engineering habits and language foundations used to build reliable software.

Python · Async · Linux · CLI

WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 PYTHON CORE FOUNDATIONS

- Python syntax, data structures and control flow
- Functions, modules and packages
- Memory management and Python internals
- Object-oriented programming and design
- Exception handling and logging
- File I/O and configuration
- Virtual environments and dependency management



02 ADVANCED PYTHON & ASYNC PROGRAMMING

- Event loop, coroutines and tasks
- Async context managers
- Concurrency vs. parallelism
- Threading and ThreadPoolExecutor



03 LINUX FOR ENGINEERS

- Filesystem and permissions
- Processes, signals and resource management
- Shell scripting
- Environment variables and CLI tooling





APPLIED LEARNING

MINI PROJECT

Async Log Analyzer CLI

Build a command-line utility that processes log data with asynchronous execution.

DESIGN · IMPLEMENT · VALIDATE · DELIVER

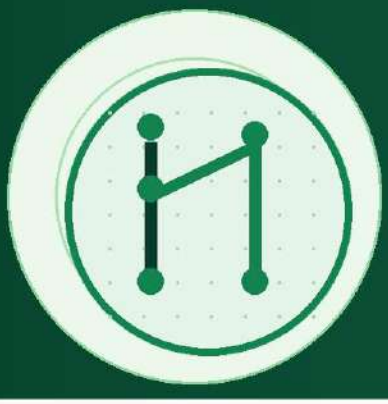
01 PHASE 1 / ENGINEERING FOUNDATIONS

MODULE 02

Software Engineering & Git

Write cleaner code, collaborate confidently and establish a repeatable quality workflow.

Git SOLID Pytest CI



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 VERSION CONTROL & COLLABORATION

- Git fundamentals and branching strategies
- Pull requests and code review
- Git workflows for teams



02 CLEAN CODE & SOFTWARE DESIGN

- Clean code and project structure
- SOLID principles
- Design patterns and reusable components
- Type hints and static analysis
- Linting and formatting



03 CONFIGURATION, LOGGING & DEPENDENCIES

- Dependency management
- Configuration management
- Logging and debugging



04 TESTING & CI QUALITY

- Unit and integration testing strategy
- Pytest fixtures and mocking
- Coverage and test quality
- CI quality gates





APPLIED LEARNING

MINI PROJECT

Production-Ready Python Service Repository

Organize a maintainable Python service with tests, configuration and quality checks.

DESIGN IMPLEMENT VALIDATE DELIVER

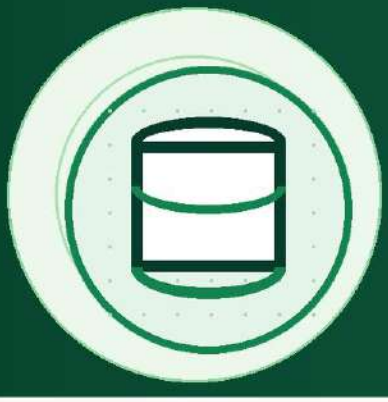
01 PHASE 1 / ENGINEERING FOUNDATIONS

MODULE 03

Databases & Data Engineering

Store data reliably, design data flows and build foundations for intelligent applications.

SQL PostgreSQL Redis Kafka



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 SQL & RELATIONAL FUNDAMENTALS

- Relational database fundamentals
- SQL: SELECT, JOIN, GROUP BY and subqueries
- Indexes and query optimization
- Transactions and ACID
- Constraints and data integrity



02 DATABASE ENGINEERING

- PostgreSQL and MySQL fundamentals
- SQLAlchemy / ORM concepts
- Connection pooling and migrations
- NoSQL fundamentals
- Redis and caching



03 DATA PIPELINES

- ETL / ELT concepts
- Data pipelines and ingestion
- Pandas for data processing
- Batch vs. streaming
- Data validation and quality



04 EVENT-DRIVEN DATA SYSTEMS

- Queues and asynchronous processing
- Kafka concepts and event streaming
- AWS SQS / SNS fundamentals
- Dead-letter queues, retry and delivery semantics





APPLIED LEARNING

MINI PROJECT

Enterprise Data Ingestion & Analytics Pipeline

Connect data sources to a validated ingestion and analytics workflow.

DESIGN IMPLEMENT VALIDATE DELIVER

02 PHASE 2 / FULL-STACK & CLOUD ENGINEERING

MODULE 04

Backend & API Engineering



Design APIs and backend services that can support production applications.

FastAPI REST GraphQL Swagger

WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 HTTP & REST API DESIGN

- HTTP fundamentals
- REST API design
- Request / response models and Pydantic validation
- Dependency injection



02 PRODUCTION API CONCERNS

- Authentication and authorization integration
- Error handling and API standards
- Pagination, filtering and sorting
- API versioning
- CORS



03 REAL-TIME & BACKGROUND PROCESSING

- Background jobs
- WebSockets and streaming



04 GRAPHQL & API TESTING

- GraphQL fundamentals
- Resolvers and schema design
- N+1 problem
- API testing
- OpenAPI / Swagger





APPLIED LEARNING

MINI PROJECT

Production-Grade FastAPI + GraphQL Service

Build a backend service with REST, GraphQL and production API practices.

DESIGN IMPLEMENT VALIDATE DELIVER

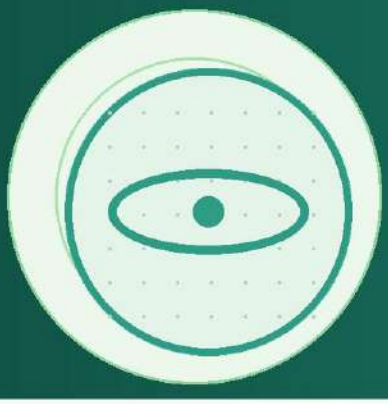
02 PHASE 2 / FULL-STACK & CLOUD ENGINEERING

MODULE 05

Frontend Engineering & AI User Experiences

Create responsive interfaces and interaction patterns for modern AI-powered products.

React TypeScript AI UX Streamlit



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 WEB FUNDAMENTALS

- HTML, CSS and modern JavaScript
- TypeScript fundamentals



02 REACT FUNDAMENTALS

- React fundamentals
- Components, props and state
- Hooks and lifecycle
- Routing
- Forms and validation



03 PRODUCTION FRONTEND CONCERNS

- API integration and authentication flows
- State management
- Error and loading states
- File uploads
- Responsive UI and accessibility
- Frontend testing



04 AI-SPECIFIC USER EXPERIENCES

- AI chat interfaces and streaming responses
- Citations and source displays
- Tool / agent interaction status
- Human-in-the-loop approval interfaces
- AI dashboards and Streamlit for rapid prototypes





APPLIED LEARNING

MINI PROJECT

Full-Stack AI Support Application

Connect an interactive frontend to backend services and AI workflows.

DESIGN IMPLEMENT VALIDATE DELIVER

02 PHASE 2 / FULL-STACK & CLOUD ENGINEERING

MODULE 06

Cloud, Networking & Infrastructure

Understand the infrastructure behind secure, scalable and observable applications.

AWS Azure VPC IAM



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 CLOUD FUNDAMENTALS

- Cloud fundamentals
- AWS / Azure / GCP core concepts
- Compute, storage and managed databases
- Serverless architecture



02 NETWORKING FUNDAMENTALS

- VPC / network architecture
- Public and private subnets and routing tables
- NAT gateways
- Security groups and firewalls
- DNS and TLS / HTTPS



03 ENTERPRISE CLOUD NETWORKING

- Load balancers and reverse proxies
- VPN and private connectivity
- Private endpoints



04 IDENTITY, COST & GOVERNANCE

- IAM and least privilege
- Cross-account / resource access
- Secrets management and cloud monitoring
- Cloud cost management
- Well-Architected principles



05 NETWORK TROUBLESHOOTING

- DNS issues and connectivity troubleshooting
- Security group / firewall troubleshooting
- TLS / certificate troubleshooting
- Debugging applications behind proxies and NAT





APPLIED LEARNING

MINI PROJECT

Secure Multi-Tier Cloud Architecture

Design a multi-tier environment with network boundaries and secure access.

DESIGN IMPLEMENT VALIDATE DELIVER

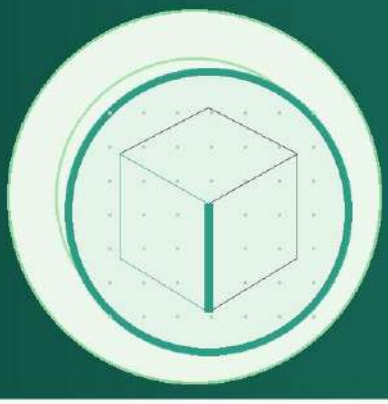
02 PHASE 2 / FULL-STACK & CLOUD ENGINEERING

MODULE 07

Containers, Kubernetes, CI/CD & Deployment

Package applications, orchestrate workloads and automate delivery.

Docker · Kubernetes · CI/CD · Terraform



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 DOCKER & CONTAINERIZATION

- Docker fundamentals and Dockerfiles
- Image optimization and multi-stage builds
- Docker Compose
- Container networking and volumes
- Container security



02 KUBERNETES FUNDAMENTALS

- Kubernetes fundamentals
- Pods, Deployments and Services
- ConfigMaps and Secrets
- Ingress and autoscaling
- Health checks and production considerations



03 MANAGED CONTAINER PLATFORMS

- ECS / Fargate
- Cloud Run / Azure Container Apps



04 CI/CD & INFRASTRUCTURE AUTOMATION

- GitHub Actions
- CI/CD pipelines and deployment strategies
- Infrastructure automation concepts
- Terraform fundamentals





APPLIED LEARNING

MINI PROJECT

Kubernetes / Cloud Container Deployment with CI/CD

Package and deploy an application through an automated delivery workflow.

DESIGN · IMPLEMENT · VALIDATE · DELIVER

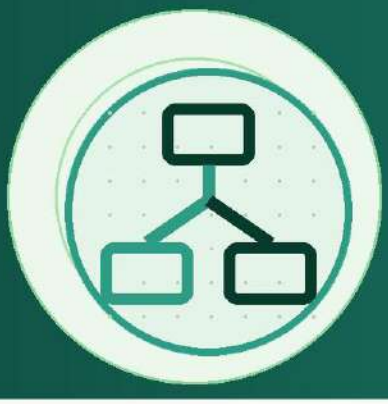
02 PHASE 2 / FULL-STACK & CLOUD ENGINEERING

MODULE 08

System Design & Solution Architecture

Translate requirements into architectures that scale, remain resilient and communicate trade-offs.

Microservices · Caching · API Gateway · ADRs



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 SYSTEM DESIGN FUNDAMENTALS

- Requirements to architecture
- Functional vs. non-functional requirements
- Scalability
- Availability and resilience
- Caching



02 ARCHITECTURE PATTERNS

- Monolith vs. microservices
- Queues and event-driven systems
- Async processing and load balancing
- Database architecture
- API gateway patterns



03 MULTI-TENANCY & SECURITY ARCHITECTURE

- Multi-tenancy and data isolation
- Security architecture
- Cost / performance trade-offs



04 ARCHITECTURE COMMUNICATION

- Architectural diagrams and technical design documents
- Architecture Decision Records (ADRs)
- Define boundaries and select technologies
- Document trade-offs, decisions and knowledge





APPLIED LEARNING

MINI PROJECT

Design an Enterprise AI Platform

Produce an architecture for an enterprise AI platform and explain its key design decisions.

DESIGN · IMPLEMENT · VALIDATE · DELIVER

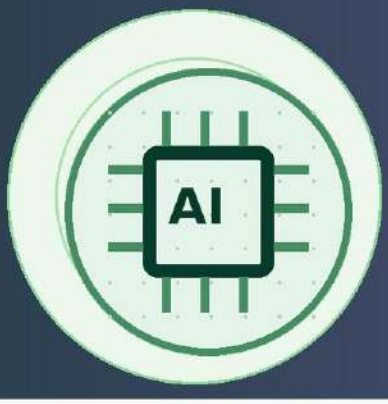
03 PHASE 3 / AI ENGINEERING

MODULE 09

LLM & Generative AI Engineering

Move from model fundamentals to structured, cost-aware AI services.

Transformers | Prompting | JSON | Tool Calling



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 LLM ARCHITECTURE FUNDAMENTALS

- LLM architecture fundamentals
- Transformers and attention concepts
- Tokens and tokenization
- Context windows
- Temperature and sampling

02 PROMPT ENGINEERING

- Prompt engineering
- Zero-shot and few-shot prompting
- System, user and developer instructions

03 STRUCTURED OUTPUTS & TOOL CALLING

- Structured outputs and Pydantic schemas
- JSON validation, retries and validation loops
- Tool / function calling
- Tool schemas and argument validation
- Parallel tool calls and streaming

04 MODEL SELECTION & ECONOMICS

- Model selection
- Latency, quality and cost trade-offs
- Embedding fundamentals
- Fine-tuning vs. prompting vs. RAG

05 AI COST ENGINEERING

- Token budgeting and prompt optimization
- Cost-efficient model selection and routing
- Semantic caching and batch inference



APPLIED LEARNING

MINI PROJECT

Structured Output + Tool-Calling AI Service

Build an AI service that returns validated structured responses and uses tools.

DESIGN | IMPLEMENT | VALIDATE | DELIVER

03 PHASE 3 / AI ENGINEERING

MODULE 10

RAG, Search & Knowledge Engineering

Turn enterprise information into grounded, searchable and maintainable AI knowledge.

Embeddings | Vector DB | BM25 | RAG



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 CHUNKING, EMBEDDINGS & VECTOR SEARCH

- Information retrieval fundamentals
- Document ingestion, parsing and cleaning
- Chunking strategies and semantic chunking
- Embeddings
- Vector search and metadata filtering
- Vector databases



02 HYBRID RETRIEVAL & RERANKING

- BM25 lexical retrieval
- Dense similarity and hybrid retrieval
- Reciprocal Rank Fusion
- Reranking and context selection



03 ADVANCED RETRIEVAL TECHNIQUES

- Query rewriting and decomposition
- Multi-query retrieval
- Citations and grounding



04 ENTERPRISE RAG OPERATIONS

- Knowledge freshness, ingestion and versioning
- ACL-aware retrieval and tenant isolation
- Retrieval evaluation: precision / recall
- Context precision / recall



05 KNOWLEDGE GRAPHS & GRAPH-ENHANCED RAG

- Knowledge graphs: nodes, edges, properties and ontology
- Neo4j / Cypher fundamentals
- Graph-enhanced RAG





APPLIED LEARNING

MINI PROJECT

Enterprise Hybrid RAG + Knowledge Graph

Combine retrieval methods and knowledge graph concepts in an enterprise RAG workflow.

DESIGN | IMPLEMENT | VALIDATE | DELIVER

03 PHASE 3 / AI ENGINEERING

MODULE 11

Agentic AI, Orchestration & MCP

Design multi-step AI workflows with state, tools, memory and human oversight.

LangGraph · Agents · MCP · Memory



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 AGENTIC DESIGN PATTERNS

- What makes an AI system agentic
- ReAct
- Planning and execution
- Router and supervisor architectures
- Agent state



02 LANGGRAPH & MULTI-AGENT SYSTEMS

- LangGraph fundamentals: nodes and edges
- Conditional routing and parallel execution
- Subgraphs and reusable patterns
- Multi-agent architectures
- State conflicts and synchronization



03 MEMORY & HUMAN-IN-THE-LOOP

- Checkpointing
- Short-term and long-term memory
- Human-in-the-loop approval
- Interrupt / resume workflows



04 AGENT RELIABILITY

- Error handling and idempotency
- Self-correction



05 MODEL CONTEXT PROTOCOL (MCP)

- MCP fundamentals and client / server architecture
- Tool discovery
- Tool boundaries and permissions
- MCP authorization and secure tool access





APPLIED LEARNING

MINI PROJECT

Multi-Agent Enterprise Workflow with MCP + HITL

Orchestrate a workflow that combines agents, tools and human approval.

DESIGN · IMPLEMENT · VALIDATE · DELIVER

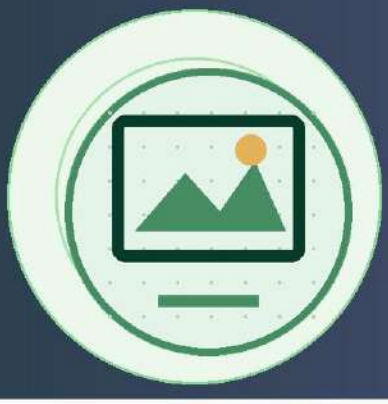
03 PHASE 3 / AI ENGINEERING

MODULE 12

Multimodal & Advanced AI Applications

Work across text, images, documents and audio in integrated AI experiences.

Vision OCR Audio Multimodal



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 VISION-LANGUAGE MODELS

- Multimodal AI architecture
- Vision-language models
- Image understanding and prompting
- CLIP and visual embeddings
- Image similarity and search



02 DOCUMENT INTELLIGENCE

- OCR and LLM-free document understanding
- Document structure extraction
- Tables and charts
- Bounding boxes
- Multi-page visual context



03 AUDIO & MULTIMODAL RAG

- Audio fundamentals
- Speech-to-text and text-to-speech concepts
- Multimodal RAG
- Advanced document intelligence





APPLIED LEARNING

MINI PROJECT

Multimodal Enterprise Document Intelligence System

Create a document workflow that can interpret more than plain text.

DESIGN IMPLEMENT VALIDATE DELIVER

03 PHASE 3 / AI ENGINEERING

MODULE 13

AI Security, Evaluation & Production

Build AI systems with guardrails, measurable quality and operational visibility.

OWASP Guardrails RAGAS LangSmith



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 AI SECURITY RISKS

- OWASP LLM security risks
- Prompt injection and jailbreaks
- Sensitive information disclosure
- Data / model poisoning
- Insecure output handling and supply-chain risks



02 PII PROTECTION & GUARDRAILS

- PII detection and redaction
- Microsoft Presidio and custom PII rules
- Input / output filtering
- Topic boundaries
- Tool / agent security and scope



03 AI EVALUATION

- AI evaluation strategy and LLM-as-a-judge
- DeepEval / RAGAS
- Faithfulness and relevance
- Context precision / recall
- Synthetic evaluation and regression
- Model / version tracking



04 LLM OBSERVABILITY

- LangSmith / Langfuse
- OpenTelemetry
- Tracing and spans
- Token usage, cost and latency monitoring



05 PRODUCTION RELIABILITY PATTERNS

- Retries and exponential backoff
- Rate limiting and circuit breakers
- Fallback models
- Idempotency





APPLIED LEARNING

MINI PROJECT

Secure, Evaluated & Observable AI Gateway

Bring security, evaluation and observability practices together in an AI gateway.

DESIGN IMPLEMENT VALIDATE DELIVER

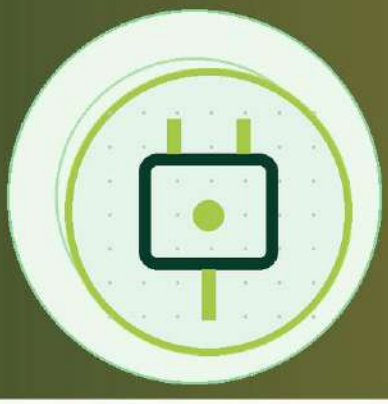
04 PHASE 4 / ENTERPRISE & FIELD DELIVERY

MODULE 14

Enterprise Integration & Legacy Systems

Connect AI applications to the business systems and data environments already in use.

Salesforce ServiceNow Slack SQL



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 MODERN ENTERPRISE INTEGRATIONS

- Salesforce, ServiceNow and Microsoft Graph fundamentals
- SharePoint and Google Workspace integrations
- SAP integration concepts



02 WORKSPACE & MESSAGING INTEGRATIONS

- Enterprise integration patterns
- Webhooks
- Slack / Teams bots and interactive messaging
- Jira integrations
- Service-to-service communication



03 LEGACY SOAP & XML SYSTEMS

- SOAP / XML and WSDL
- XML parsing
- API mapping and transformation
- SOAP faults and fallback strategies



04 ENTERPRISE DATABASE INTEGRATION

- Oracle and MS SQL Server
- Secure database connectivity and read-only access
- Parameterized queries and schema mapping
- ETL-to-SQL, SQL safety controls and fallback strategies



05 WORKING WITH UNKNOWN ENTERPRISE SYSTEMS

- Discovery and documentation analysis
- API discovery and authentication
- Data-model discovery and dependency mapping
- Building integration adapters
- Enterprise API contracts and legacy modernization patterns





APPLIED LEARNING

MINI PROJECT

Enterprise Support Agent with Slack + Jira + SQL

Connect enterprise collaboration tools and data through an integrated support workflow.

DESIGN IMPLEMENT VALIDATE DELIVER

04 PHASE 4 / ENTERPRISE & FIELD DELIVERY

MODULE 15

Identity, Access Management & Enterprise Security

Control who can access applications, data, tools and AI responses.

OAuth 2.0 OIDC SAML RBAC



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 AUTHENTICATION & SSO

- Authentication vs. authorization
- OAuth 2.0, OpenID Connect and SAML
- JWT
- SSO architecture and identity providers
- Service accounts



02 AUTHORIZATION MODELS

- RBAC and ABAC concepts
- Azure / Entra ID concepts
- Group-based authorization
- API authorization
- AI application roles



03 DATA-LEVEL & AI ACCESS CONTROL

- Data-level permissions
- Row-level access control
- Tenant isolation
- RAG / application permissions



04 SECRETS, KEYS & COMPLIANCE

- Secrets management
- Key management
- Secure token handling
- Audit logging
- Compliance fundamentals





APPLIED LEARNING

MINI PROJECT

SSO + RBAC + Permission-Aware RAG

Apply identity and permission-aware retrieval patterns to an AI application.

DESIGN IMPLEMENT VALIDATE DELIVER

04 PHASE 4 / ENTERPRISE & FIELD DELIVERY

MODULE 16

FDE Customer Engineering & Delivery

Translate customer needs into scoped, demonstrable solutions and clear delivery plans.

Discovery Scoping Demos UAT



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 CUSTOMER & TECHNICAL DISCOVERY

- What an FDE actually does
- Customer discovery and stakeholder identification
- Business problem framing and requirements gathering
- Technical discovery and workflow / process analysis
- Data discovery and classification
- Integration discovery, constraints and assumptions



02 SOLUTION SCOPING

- Solution scoping and technical architecture proposal
- Proof of Concept → Pilot → Production
- Technical trade-offs and scope management
- Architecture / SOW documentation
- Estimation in a real environment
- Navigating conflicting stakeholder priorities



03 CUSTOMER PRESENTATIONS & DELIVERY

- Customer presentations and technical demos
- Objection handling
- Handling questions you cannot answer on the spot
- Security, cost and scope discussions
- UAT planning
- Deployment and handoff



04 ADOPTION & BUSINESS IMPACT

- Customer enablement and adoption metrics
- ROI / business impact
- Reusable solution patterns





APPLIED LEARNING

MINI PROJECT

End-to-End Customer Discovery → Production Proposal

Turn discovery findings into a practical proposal, delivery approach and success measures.

DESIGN IMPLEMENT VALIDATE DELIVER

04 PHASE 4 / ENTERPRISE & FIELD DELIVERY

MODULE 17

Production Engineering & Incident Labs

Prepare for operational realities: reliability, performance, incidents and safe recovery.

SLOs · Incidents · Recovery · Observability



WHAT YOU WILL EXPLORE

CONCEPTS • PRACTICE • APPLICATION

01 PRODUCTION READINESS & RELIABILITY

- Production readiness review
- SLI / SLO / SLA and error budgets
- Reliability engineering
- RTO / RPO
- Backup and disaster recovery



02 PERFORMANCE & CAPACITY

- Load testing
- Performance testing
- Capacity planning



03 INCIDENT MANAGEMENT

- Incident detection and response
- Root-cause analysis
- Postmortems
- Debugging distributed systems and AI agents



04 REAL-WORLD INCIDENT TYPES

- Outages
- Security incidents
- Data-quality incidents



05 SAFE DEPLOYMENT & RECOVERY

- Blue / green deployments
- Canary deployments
- Failure injection
- Customer-impact analysis





APPLIED LEARNING

MINI PROJECT

Realistic Production Outage & AI Failure Scenarios

Work through lab scenarios focused on diagnosing incidents and recovering safely.

DESIGN · IMPLEMENT · VALIDATE · DELIVER

BUILD THE

OMNIGUARD

ENTERPRISE AI FDE DEPLOYMENT



An end-to-end capstone that connects discovery, architecture, engineering, security and customer delivery.

1 DISCOVER — 2 DESIGN — 3 BUILD — 4 SECURE — 5 OPERATE — 6 DELIVER

THE DELIVERY JOURNEY

01 Customer discovery
Understand stakeholders, workflows and business needs. 01

02 Solution architecture
Translate the problem into a clear technical design. 02

03 Enterprise AI platform
Build the working AI application and its integrations. 03

04 Enterprise security
Address identity, access and security requirements. 04

05 Production engineering
Evaluate, deploy, monitor and prepare for operations. 05

06 Customer delivery
Present the solution, support adoption and hand over. 06

07 FDE final presentation
Explain the end-to-end solution and its business value. 07

CAPSTONE DELIVERABLES

DISCOVER / DESIGN / DELIVER

01 Discovery document	02 Architecture proposal	03 Working system	04 Security assessment
05 Evaluation report	06 UAT runbook	07 ROI proposal	

FDE ROLE

READINESS MAP

The curriculum connects multiple engineering specializations into one end-to-end Forward Deployed Engineer skill set.

FDE

FULL-STACK AI ENGINEER

Connect software, data, cloud, AI and customer delivery.

01 Software Engineering Modules 1-5

Modules 1-5

Programming, application development and software foundations.

02 Data Engineering Modules 3, 10

Modules 3, 10

Data pipelines, retrieval systems and knowledge engineering.

03 Cloud & Infrastructure Modules 6-8

Modules 6-8

Cloud platforms, networking, containers and architecture.

04 AI Engineering Modules 9-13

Modules 9-13

LLMs, RAG, agents, multimodal applications and AI production.

05 Enterprise Integration Module 14

Module 14

Business systems, collaboration tools and legacy integration.

06 Security & IAM Modules 13, 15

Modules 13, 15

AI security, identity, authorization and access control.

07 Production / SRE Modules 7, 13, 17

Modules 7, 13, 17

Deployment, observability, reliability and incident response.

08 Customer Engineering Modules 6, 16

Modules 6, 16

Customer discovery, technical scoping and delivery.

09 Solution Architecture Module 8

Module 8

System design, architecture patterns and technical decisions.

10 Communication & Consulting Module 16

Module 16

Presentations, stakeholder alignment and business impact.

11 End-to-End FDE Delivery Capstone

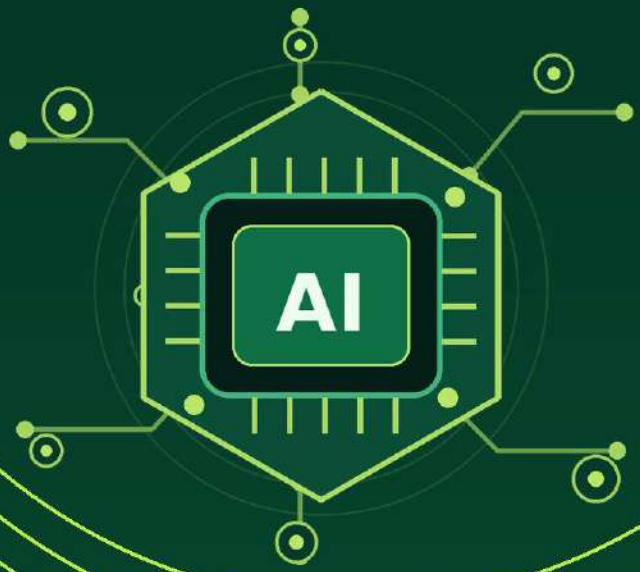
Capstone

Connect discovery, design, build, secure, deploy and deliver.

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