

Advaidd Gireesan

Senior AI Engineer | Forward-Deployed AI | Agentic AI, RAG & MCP | Enterprise AI Platforms

+1-224-482-3270 advaiddg@gmail.com linkedin.com/in/advaiddg github.com/advaiddg techwithadv.com Greater Chicago Area

PROFESSIONAL SUMMARY

Hands-on AI engineer and Senior Consultant with **6+ years across enterprise software, cloud platforms, modernization, and technical consulting**, currently supporting Capital One through Capgemini after several years in the Discover Financial Services environment. Specializes in turning ambiguous business workflows into working solutions using **agentic AI, RAG, MCP/tool calling, intelligent document processing, and cloud-native systems**, combining stakeholder discovery with direct engineering in Python/FastAPI, Java/Spring Boot, AWS, Azure services, Kubernetes, and OpenShift. Built reusable AI accelerators, contributed to coding-agent workflows, and led distributed teams of up to 15 engineers; outcomes include POCs that helped secure a **~\$1M engagement**, a **~\$1.3M modernization** that reduced a critical batch from ~8 hours to ~50 minutes, and an accelerated OpenShift migration delivered with zero production defects.

CORE COMPETENCIES

Forward-Deployed AI & Opportunity Discovery

Agentic AI & Intelligent Automation

Proof of Value & Rapid Prototyping

RAG, MCP & Tool Calling

AI Evaluation, Guardrails & Human Review

Stakeholder Leadership & Influence

Reusable Accelerators & Platform Patterns

Cloud-Native & Distributed Systems

PROFESSIONAL EXPERIENCE

Capgemini | Client: Capital One

2025 - Present

Senior Consultant - Applied AI, GenAI & Cloud Platforms

- **Lead client-facing discovery and architecture working sessions** across agentic AI, RAG, MCP, document intelligence, and AI-assisted engineering, translating business workflows and ambiguous requirements into use cases, technical direction, demonstrations, success criteria, and delivery approaches.
- Built **two reusable AI accelerators**: **FinSight Explorer**, an MCP-powered financial analytics assistant combining LLM tool calling, PostgreSQL schema discovery, controlled query execution, and RAG; and **SkyOps**, a Bedrock Agents-based operations assistant integrating Knowledge Bases, Action Groups, CloudWatch telemetry, and guarded read-only tools.
- Contributed to Capital One's open-source **VulnHunter** by porting AI-assisted vulnerability-remediation workflows from Claude Code skills to **GitHub Copilot Agent Skills**, adding install/uninstall tooling and CI drift detection; part of a broader portfolio of **100+ open-source contributions**.
- Design reusable patterns for **grounding, human approval/escalation, secure tool execution, auditability, observability, fallbacks, cost/latency trade-offs, and enterprise governance**; shape technical content for solution reviews, RFPs, and client demonstrations.

Capgemini | Client: Discover Financial Services

2024 - 2025

Consultant

- **Built modernization POCs and client demonstrations that helped Capgemini secure an approximately \$1M engagement**, connecting technical architecture to a credible value proposition, migration strategy, and delivery approach.
- Served as **onsite technical lead and client-facing coordinator** for a major WebSphere/Struts to Spring Boot/OpenShift modernization, guiding a **12-member offshore team** and aligning business, application, platform, CI/CD, and operations stakeholders without direct reporting authority.
- Delivered the production migration **materially ahead of commitment with zero post-release defects** and approximately **\$300K in estimated accelerated-delivery savings**, while establishing reusable Helm, release, and deployment patterns.

Capgemini | Client: Discover Financial Services

2022 - 2024

Associate Consultant

India

- Served as **technical lead on a ~\$1.3M modernization program** for a business-critical batch platform, guiding a **15-person engineering team including 3 junior engineers** from shell scripts/stored procedures to Java/Spring Boot and Argo Workflows.
- Re-architected orchestration, reliability, and performance, reducing the longest-running batch by **~90%, from ~8 hours to ~50 minutes** through application/process optimization and application-level caching while strengthening observability and production resilience.

Cognizant | Client: Discover Financial Services

2020 - 2022

Java API Developer / DevOps Engineer

- Developed Java/Spring REST APIs and enterprise integrations for financial-services applications, supported PCF-to-OpenShift migration and containerized delivery, and built Kofax TotalAgility workflows for document extraction and classification.

SELECTED AI & PRODUCT WORK

Grounded - AI-Native Intelligent Document Processing Platform

Architected and implemented an AI-native document-extraction platform using FastAPI, PostgreSQL, Redis-backed processing, object storage, OCR, and Docker, with integrations for **Azure OpenAI, Azure Document Intelligence, Azure Blob Storage, and Entra ID**. Designed confidence-aware human review, a statistical false-accept-rate trust layer, tamper-evident auditability, and **400+ automated backend tests**.

Azure OpenAI | Azure Document Intelligence | FastAPI | PostgreSQL | Redis | OCR | Human-in-the-Loop

Orepli (by TapasNGS) - Multi-Tenant AI Customer Support Platform

Product owner/builder for a knowledge-grounded support platform with confidence-gated automation, source citations, mailbox/knowledge ingestion, tenant isolation, role-based access, human review, and auditable conversation timelines.

FastAPI | Next.js | PostgreSQL/pgvector | RAG | LLM APIs | Multi-Tenant SaaS

EDUCATION & CERTIFICATION

Bachelor of Technology, Mechanical Engineering TKM College of Engineering

2020

Certified Kubernetes Application Developer (CKAD)

CNCF

TECHNICAL SKILLS

Agentic AI & LLMs: OpenAI APIs, Amazon Bedrock, Anthropic Claude, Google Gemini, Agentic AI, RAG, MCP, Tool/Function Calling, Prompt Orchestration, Human-in-the-Loop, Guardrails, AI Evaluation & Observability

AI-Assisted Engineering: GitHub Copilot Agent Skills, Claude Code Skills, AI-assisted coding workflows, CI automation, automated testing, developer AI harnesses

Retrieval & Data: PostgreSQL, pgvector, FAISS, Chroma, Vector Search, Hybrid Retrieval, Reranking, SQL, Schema Discovery, OCR, Intelligent Document Processing

Languages & Frameworks: Python, FastAPI, Java, Spring Boot, TypeScript, React, Next.js, REST APIs

Cloud & Platform: AWS (Bedrock, Lambda, Step Functions, API Gateway, S3, CloudWatch, Textract), Azure OpenAI, Azure Document Intelligence, Kubernetes, OpenShift, Docker, Terraform, Helm, Argo Workflows

DevOps & Operations: Jenkins, GitHub Actions, CI/CD, Datadog, CloudWatch, Observability, Secure SDLC, Production Readiness