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PROFESSIONAL EXPERIENCE

Umbrage (a Bain & Company subsidiary)

Director of AI Engineering

Remote

August 2026 – Present

- Lead AI engineering initiatives across client engagements, embedding with teams to optimize core business processes and operational workflows.

Vantix Strategies

Founder & Principal Consultant

Remote

2025 – Present

- Founded an AI consulting firm of Forward Deployed Engineers that ship production systems in under 6 weeks, with full IP transfer to the client.
- Deliver three service lines: AI orchestration (RAG, agents, LLM ops), embedded data engineering (lakehouses, streaming, semantic layers), and post-acquisition tech stack consolidation.
- Build agent workflows and data pipelines on Python, LangChain, Snowflake, dbt, across differing cloud platforms.
- Embed inside client engineering teams to own scoping, architecture, and delivery, and handle all business development.

UnitedHealthcare

Forward Deployed Engineer

Minnetonka, MN, USA

May 2026 – August 2026

- Selected as one of 15 engineers across UnitedHealth Group Technology's 13,000 employees to launch the company's Forward Deployed Engineer initiative, embedding directly with business units to ship production AI systems.
- Redefined the risk adjustment model within the finance division, a system that equates to over \$150 billion in revenue.
- Built a novel AI-enabled vendor relations dashboard that allows executives to directly manage their third-party relationships.
- Architected and built out the entire FDE platform for rapid deployment across cloud service providers (AWS, Azure, GCP), standardizing environments and cutting time-to-production for new engagements.
- Built an agentic Chief of Staff application on enterprise LLM APIs to automate agendas, event scheduling, and organizational management, backed by a RAG knowledge base made queryable through NLP libraries, with a JavaScript frontend and Python backend.

UnitedHealthcare

AI Engineer

Minnetonka, MN, USA

July 2025 – May 2026

- Built an AI observability platform for legacy and cloud native apps, improving system resilience.
- Prevented over \$1M in annual losses by drastically reducing Mean Time to Recovery (MTTR) for high-stakes systems where downtime is valued at \$600k/minute.
- Engineered full-stack AI solutions focused on enterprise risk mitigation, ensuring robust compliance and security protocols across the developer lifecycle.
- Modernized data infrastructure by building custom pipeline tools and MCP servers, enabling autonomous agents to map complex system dependencies.
- Enhanced member experience by deploying AI agents to streamline data retrieval, significantly reducing "member abrasion" and improving internal data accessibility.

UnitedHealth Group

Software Engineer Intern | Cloud Migration

Minneapolis, MN, USA

June 2024 – May 2025

- Containerized 52 .NET APIs and 10 Angular web apps using Docker, Kubernetes, and Helm to enhance deployment efficiency and scalability.
- Utilized generative AI to increase efficiency and automation through the use of bash scripting to fulfill cloud migration standards.
- Developed CI/CD pipelines with GitHub Actions and Octopus Deploy, automating build, test, and deployment processes.
- Saved organization \$100,000+ through cloud migration by lowering operating costs through horizontal pod autoscaling.

- Achieved 90% success rate in section header detection by designing convolutional neural network (CNN) architectures and utilizing image processing, transfer learning, and character recognition techniques for developing an advanced computer vision system for medical documents.
- Implemented an AI model into a system that processes over 2 million documents and generated \$27 million in revenue annually by designing a user interface for a medical document processing platform.
- Enhanced model robustness and performance by employing frameworks such as Pytorch, and OpenCV to build neural network models and perform image processing tasks.

- Enhanced client satisfaction and app usability by designing Android applications utilizing Kotlin and Java.
- Improved app functionality and user security through the implementation of key frameworks such as authentication, API calls, and Google Maps.
- Guaranteed timely project delivery and continuous improvement by collaborating with quality assurance teams to identify issues and implement solutions using Agile methodologies and version control systems like Git.

EDUCATION

Related Coursework: Adv. Machine Learning, Computer Vision, Data Visualization, NLP, Web Development, Computational Genomic, Mathematics of Financial Derivatives

Related Coursework: Adv. Algorithms & Data Structures, Honors Discrete Structures, Machine Learning, Artificial Intelligence, Machine Architecture, Adv. Programming Principles, Programming Languages, Automata Theory, Operating Systems, Database Systems, Prob. and Stats.

Awards: Dean's List, 3M Scholarship Fund

SKILLS

AI/ML: LLMs, RAG, AI Agents, LangChain, Vector Databases, LLM Ops, MCP (Model Context Protocol), AI Observability, Machine Learning, Pytorch, Computer Vision, Yolov7, AzureML, Keras, Scikit-Learn, NLP, Deep Learning	Imperative Languages: Python, C, Java, Kotlin, Ruby, JavaScript, TypeScript, C++, Swift
Dev Ops: Docker, Kubernetes, Helm, Terraform, AWS, Azure, Google Cloud Platform, Heroku, CI/CD	Functional Languages: OCaml, Haskell, Scheme
Web Dev: React, NextJS, NodeJS, Flask	Mobile Dev: iOS, Android, MVVM Architecture, Google Maps SDK, Retrofit, Firebase, SceneKit
	API: FastAPI, Flask, Ruby on Rails, .NET, Express, MCP Servers, PostgreSQL

PROJECTS & OUTSIDE EXPERIENCE

- A SaaS professional networking platform that surfaces high-value connections from user-specific criteria such as school alumni, previous employers, and location, paired with a dashboard of matches, relationship context, and generated outreach emails.

- Open-source repository improving accessibility to document layout computer vision and OCR; trained an object detection CNN on the IBM PubLayNet dataset for document layout analysis.