

AI Engineer

AI Engineer and builder specializing in designing, developing, and deploying production-ready AI agents, with 5+ years shipping GenAI solutions from rapid prototyping to production deployment. Builder-first mindset with proven track record delivering agent-based systems that improved business efficiency by 50-80% within 3 months, establishing evaluation frameworks, model governance, and scalable AI infrastructure on AWS/Azure.

SKILLS

- **Programming:** Python, C++, JavaScript, TypeScript, SQL, FastAPI, Flask, React, NumPy, Pandas
- **AI Agent Development:** Agentic AI, LangChain, LangGraph, Multi-Agent Systems, Agent-to-Agent (A2A), AI Orchestration, GenAI, RAG, Prompt Engineering, Model Evaluation, Model Selection, Model Context Protocol (MCP), Human-in-the-Loop
- **AI/ML Frameworks:** PyTorch, TensorFlow, Scikit-learn, MLOps, Context Engineering, Model Deployment, Responsible AI, Feature Engineering
- **Cloud & Infrastructure:** AWS, Azure, Docker, Kubernetes, CI/CD Pipelines, API Design, DevOps, Monitoring, Performance Tuning, Scalability, Observability
- **Data & Databases:** Vector Databases (FAISS, Pinecone), Data Pipelines, Data Processing, Data Integration, Knowledge Graph, Analytics

WORK EXPERIENCE

Grid CoOperator (Seattle, WA)

AI Engineer, Mar 2025 - Present

- Built and shipped production AI agent system from prototype to deployment, designing multi-agent architecture automating complex analyst workflows with 70% manual effort reduction within 2 months
- Designed and deployed AI orchestration infrastructure using LangChain on AWS with cost monitoring and observability, built comprehensive evaluation datasets measuring agent performance and cost efficiency across 50-100 daily queries
- Shipped iterative improvements optimizing agent performance and cost, built monitoring dashboards tracking business outcomes, established AI governance practices including bias detection and safety guardrails

Freefly Systems (Woodinville, WA)

Senior Software Engineer, Nov 2021 - Oct 2025

- Built and deployed GenAI-powered agent for automated log analysis from concept to production, integrating foundation model APIs (Ollama, Llama 3.2) reducing manual workflows by 80% within 3 months while serving 200+ daily queries
- Designed agent workflows with cross-functional teams, implementing evaluation frameworks measuring effectiveness and establishing model governance practices ensuring responsible AI deployment
- Enhanced distributed systems with microservices architecture and CI/CD pipelines, building automated testing frameworks improving deployment efficiency by 60% over 6 months

Lumenier (Sarasota, FL)

Software Engineer - Embedded Systems, Jul 2020 - Oct 2021

- Built custom software using C++ and optimized data structures delivering autonomous capabilities within 8 weeks through algorithm optimization and efficient data processing pipelines
- Shipped 45% operational efficiency gains across environments while establishing testing frameworks to ensure solution accuracy and reliability

York Exponential (York, PA)

Software Engineer - R&D, Aug 2018 - May 2020

- Built Human Machine Interface using Python and ROS2 reducing operator programming complexity by 50% within 4 months through AI/ML integration and workflow automation
- Developed autonomous robot prototype integrating computer vision and machine learning pipelines from requirements to production deployment with end-to-end ownership

EDUCATION

Washington State University (Pullman, WA)

Master of Science in Computer Science, Jan 2015 - Jan 2017

PROJECTS

GridCOP: Enterprise AI Agent Platform (Grid CoOperator)

- Built A2A multi-agent system using LangChain orchestration where specialized agents coordinate analytics tasks
- Implemented RAG with vector search (FAISS), integrated multiple foundation models (Claude, GPT-4), built evaluation framework measuring quality and cost metrics
- Deployed on AWS with auto-scaling and observability, implemented AI safety practices including human-in-the-loop evaluation, bias detection, and rigorous testing

Production AI Agent for Log Analysis (Freefly Systems)

- Built full-stack GenAI agent integrating foundation model APIs (Ollama, Llama 3.2) for real-time log processing
- Led agent design including model selection, prompt engineering, and evaluation framework
- Deployed to production with comprehensive monitoring and cost tracking, established governance practices including testing, monitoring, and safety guardrails

AI Travel Planner Agent (Personal)

- Built AI agent using Claude 3.5 Sonnet API, LangChain orchestration, and DuckDuckGo Search API
- Demonstrated rapid prototyping and agent development from concept to working solution showcasing model selection, prompt engineering, and iterative improvement