Darin Williams

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STAFF AI ENGINEER

Summary

Senior Software Engineer and AI Product Founder with 15+ years of experience building scalable enterprise systems in healthcare and retail. Founder of an early-stage AI company, applying advanced training and hands-on projects in **LLMs, RAG systems, and agentic AI** to design production-ready intelligent products with measurable business impact.

Selected AI & ML Projects

- **Healthcare Insight NLP Agent (LLMs, RAG)** Built retrieval-augmented generation pipeline using LangChain, Hugging Face, and Chroma; improved diagnostic QA accuracy by 90% and reduced latency 60%.

- **PPE Detection (Computer Vision)** – Fine-tuned VGG16 CNN for PPE detection using Tensorflow, and OpenCV; achieved 92% accuracy, and 30% faster inference on GPU

- **Autonomous Financial Research Analyst** Engineered a LangGraph financial agent combining real-time market data, multi-year trend analysis and sentiment-driven RAG

Experience

Founder/Principal Engineer - (2025 – Present)
Autonami Ai LLC (Early-stage AI Startup)

- Architected a multi-tenant healthcare SaaS platform applying agentic workflows
- Designed HIPAA-aligned governance and observability using OPA, OpenTelemetry enabling auditable policy enforcement

Senior Software Engineer – HCSC (2007-2023)

- Architected microservices 1M+ daily trans
- Mentored engineers on Kotlin, Java, ReactJS
- Implemented security scans on CI/CD pipelines

AI/ML Specialization & Professional Development

- **MIT -** Professional Certificate Program in AI & ML   (07/2025)
- **Johns Hopkins University** - Certificate in Agentic AI   (*02/2026, Expected*)
- **Microsoft** - Azure AI Engineer Associate   (05/2025)
- **Microsoft** - AI & ML Engineering Professional Certification   (02/2025)
- **Udacity** - Intro to ML with TensorFlow Unsupervised Learning (02/2025)
- **Udacity -** AI Programming with Python   (01/2025)
- **Udacity -**Programming Transfer Neural Networks (Pytorch)   (01/2025)

Education

- Postgraduate Program in AI & ML – **UT Austin**, Tx , (01- 08/2025)
- M.S. Software Engineering – **Regis University**, Co, (2015 - 2017)
- B.S. Computer Science – **WGU**, Tx, (2012 – 2015)

Skills

Agentic AI: LangGraph • LangChain • Crew AI • SmolAgents • OpenAI
Machine Learning: TensorFlow • PyTorch • YOLO • Scikit-learn • OpenCV
Software Engineering: Python • Java • SQL • ReactJS • Kotlin • MCP
Cloud: Azure • AWS • Vercel • GCP
MLOps: LangSmith • TerraForm • Jenkins • Docker • Github Actions
Tools: Streamlit • Flask • HuggingFace • FastAPI • LlamaIndex • Tavily
Math: Linear Algebra • Optimization • Probability & Statistics • Calculus

Leadership

- Voted Software Developer of the Year by peers, *HCSC* - (2019 – 2020)
- Mentor Cohort on Machine Learning and Debugging Issues, *UT, Austin*
- Coordinated monthly engineering forums to promote Java best practices and code quality, *HCSC*

Find me online

ML-Portfolio: https://www.mygreatlearning.com/eportfolio/darin-williams
Ai-Portfolio: https://www.mygreatlearning.com/eportfolio/darin-williams2
Digital Twin: https://darindigitialtwin.com

Availability: Remote • Hybrid• On-site