



# Darin Williams

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## STAFF AI ENGINEER

### Summary

AI Product Leader and Senior Software Engineer transitioning into Artificial Intelligence and Machine Learning with 15+ years building scalable enterprise systems in healthcare and retail. Currently specializing in LLMs, RAG systems, and Agentic AI frameworks. Passionate about designing intelligent, production-grade solutions that drive 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 runtime.
- Retail Sales Forecasting App**  
Developed demand forecasting model with XGBoost model ( $R^2 = 0.75$ ); deployed via Streamlit & Docker to support merchandising

### Experience

#### Founder – Autonami Ai LLC (2025 – Present) (Early-stage AI Startup)

- Architected a multi-tenant healthcare SaaS platform integrating agentic workflows
- Established CI/CD pipelines for Rego policy testing

#### 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:** 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

- E-Portfolio: <https://www.mygreatlearning.com/eportfolio/darin-williams>
- Digital Twin: <https://darindigitaltwin.com>

Availability: Remote • Hybrid• On-site