



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