



## Darin Williams

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### ARTIFICIAL INTELLIGENCE/MACHINE LEARNING ENGINEER

#### SUMMARY

Motivated software engineer with 15+ years' of experience delivering production-scale systems in healthcare and retail. Applied expertise in computer vision, NLP, forecasting, and ethical AI, with a track record of leading teams and shipping measurable business impact.

#### PROJECTS

- **Healthcare Insight NLP Agent (LLMs, RAG)**  
Designed scalable RAG pipeline - Improved diagnostic accuracy by 90% & reduced latency 60%
- **PPE Detection (CNN, VGG-16)** – Fine-tuned sequential models - achieved 92% accuracy, 40% memory savings, 30% faster detection
- **Retail Sales Forecasting (XGBoost, Streamlit)**  
Delivered  $R^2 = 0.75$ , deployed via Docker / Flask. Drove merchandising decisions via Feature importances

#### EXPERIENCE

##### Senior Software Engineer

HCSC, Richardson, Tx, (2007 – 2023)

##### Role: Lead Developer      Project: MMA

- Architected microservices 1M+ daily trans
- Mentored engineers on Kotlin, Java, ReactJS
- Automated CI/CD pipelines with Jenkins

##### Role: Lead Developer      Project: Blue Access

- Created Reusable ReactJS Components
- Engineered new Java API backend modules

##### Role: Lead Developer      Project: On Board

- Developed Kotlin features for mobile app
- Created Android Jetpack Compose features

#### CERTIFICATIONS

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

**Languages:** Python • Java • SQL • ReachJS • Kotlin

**Frameworks:** LangChain • TensorFlow • PyTorch • YOLO • Streamlit • Flask

**Agentic AI:** LlamaIndex • TavilyAPI • Phoenix Arize • RAG • LLM

**Machine Learning:** CNN • ANN • Networkx • Seaborn • OpenCV

**Cloud/DevOps:** Azure • Jenkins • Git • Docker • Hugging Face

#### LEADERSHIP

- Voted Software Developer of the Year by peers, *HCSC* - (2019 – 2020)
- Mentor Cohort on Machine Learning and Debugging Issues, *UT, Austin*
- Coordinated monthly meetings to Promote Java Best Practices, *HCSC*

#### FIND ME ONLINE

- LinkedIn: <http://linkedin.com/in/darinjeswilliams>
- E-Portfolio: <https://www.mygreatlearning.com/eportfolio/darin-williams>
- Demos: <https://darinjswilliams.github.io>