Darin Williams

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ARTIFICIAL INTELLIGENCE/MACHINE LEARNING ENGINEER

SUMMARY

Senior Software Engineer with 15+ years of experience delivering scalable systems, applied ML solutions. Skilled in Azure, TensorFlow, PyTorch, and LangChain with expertise in computer vision, forecasting and ethical AI. Adept at leading teams, mentoring engineers and driving measurable business impact through advanced AI innovations.

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 model → 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)

- Architected microservices (millions of daily transactions across 5 States)
- Automated CI/CD pipelines with Jenkins
- Mentored engineers on Kotlin, Java, ReactJS
- Developed Java API
- Integrated Junit & Jest testing 100% coverage

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

Python • Java • SQL • TensorFlow • PyTorch • LangChain • YOLO • OpenCV • Azure • Docker • Jenkins • Hugging Face • Streamlit • Flask • ReactJS • Seaborn • RAG • LLM • LlamaIndex • TavilyAPI • Networkx • Phoenix Arize

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