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EDUCATION

The University of Texas at Dallas — **Richardson, TX**
M.S. Computer Science, Data Sciences track — *August 2024 – Expected December 2025*
B.S. Computer Science — *August 2024*
Relevant Courses: Database Systems, Machine Learning, Artificial Intelligence, Natural Language Processing, Statistical Methods for Data Science, Design and Analysis of Computer Algorithms, Big Data Management and Analytics, Web Programming Language.

Houston Community College — **Houston, TX**
Associate of Science Major in Computer Science — *August 2018 - August 2021*

The University of Texas at Dallas – Fullstack Academy — **Richardson, TX**
Data Analytics Bootcamp Certificate — *Earned October 2022*

TECHNICAL SKILLS

- Concept: AI, ML, NLP, LLM, API, Database, Cloud Computing, Data Structures
- Programming Language: JavaScript, Typescript, Python, Java
- Databases: MySQL, MongoDB, PostgreSQL, Oracle
- Framework: React, Vite, Next.js, Node.js, PyTorch, Flask
- DevOps: GitHub, Linux, Docker, Firebase, Google Cloud, IBM Cloud, IBM watsonx Orchestrate, AWS S3, Tableau, Power BI

PROFESSIONAL WORK EXPERIENCE

Software Developer Intern – IBM Learning — **Austin, TX**
Full-time - Jira, Vite, JavaScript, Python, Docker, IBM Cloud, IBM DB2, IBM watsonx Orchestrate, Milvus Vector Database — *May 2025 - Present*

- Spearheaded the end-to-end development of an AI-powered chatbot assistant used by over 5,000+ learners, streamlining user experience through smoother interactions, quicker access to content, and a 30% reduction in navigation time across the IBM Learning platform
- Implemented a scalable multi-agent recommender system that delivers personalized course suggestions, resulting in a 25% increase in learner engagement and laying the foundation for future cohort-based learning initiatives across IBM's internal training platform.
- Defined the AI chatbot's performance by optimizing intent recognition, debugging complex conversational logic, and enhancing dialogue flow, which led to a 40% reduction in misclassification errors and a 20% boost in user task success rate, all while aligning cross-functional team efforts.

Web Specialist - Department of Bioengineering, The Erik Jonsson School of Engineering and Computer Science at UT Dallas — **Richardson, TX**
Part-time - Jira, WordPress, Vanilla HTML, CSS, JavaScript, Photoshop, Dreamweaver — *June 2024 - Present*

- Managed and continuously enhanced over 20+ department and lab websites, identifying outdated assets, streamlining navigation structures, and collaborating with stakeholders to improve performance, accessibility, and consistency across the school's online presence.
- Designed and deployed responsive static websites from scratch using HTML, CSS, and JavaScript, creatively integrating high-quality, custom-processed graphics to overcome WordPress plugin limitations and boosting overall site speed and reliability by 30%.
- Collaborated with faculty and web team members to overhaul visual layouts and metadata structures, applying modern UI/UX and SEO best practices that led to a 40% increase in organic search visibility, longer visitor sessions, and improved engagement from students and faculty.

Smart Data Solutions — **Richardson, TX**
Computer Science Project - Healthcare Correspondence LLM Project — *January 2024 – May 2024*

- Developed a custom Healthcare Correspondence Assistant using large language models to intelligently extract, filter, and summarize patient data from scanned records, reducing manual document review time by over 50% for hospitals and care providers.
- Processed and indexed more than 10,000 healthcare documents by integrating OCR pipelines, Chroma database, and Llama 2, enabling real-time retrieval of relevant data for clinicians and administrative staff through a streamlined query interface.
- Deployed and optimized the model using GPU-based inference on AWS, cutting average response times from 2.5 minutes to 15 seconds and improving query accuracy by 20%, while ensuring cost-efficient scalability for large healthcare systems.

PROJECTS

OptiProperty – Smart Resource Management for Sustainable Savings — **Richardson, TX**
HackUTD 2024: Ripple Effect - SambaNova Cloud API, Real-Time Data Processing, Next.js, MaterialUI, Predictive Analytics — *October 2024*

- Developed during UTD's 2024 Ripple Effect Hackathon, OptiProperty integrates AI-powered analytics (SambaNova API) and real-time data processing to optimize energy and water usage, delivering actionable insights that reduce costs and environmental impact.
- Achieved real-time monitoring, predictive algorithms for consumption forecasting, and intuitive user interfaces, enabling property managers to make data-driven decisions for financial savings and sustainability.
- Leading efforts to scale and enhance system capabilities by integrating with smart building technologies, expanding resource management (including gas and waste), and delivering advanced breakdowns for improved efficiency and broader adoption in commercial real estate.

Brain Tumor Detection Using Deep Learning — **Richardson, TX**
Undergrad Researcher - Python, InceptionV3, ResNet, VGG, Xception, YOLOv9 — *January 2024 – May 2024*

- Conducted a comparative analysis of advanced models such as InceptionV3, ResNet, YOLOv9, GELAN-C, and Xception for the diagnosis of brain tumors, achieving an accuracy rate of 95.6% through the implementation of an ensemble approach.
- Employed deep learning techniques, including transfer learning and custom neural network layers, to enhance feature extraction and classification capabilities in the detection of brain tumors.

EXTRACURRICULAR

UTD Vietnamese International Network of Culture, Education and Friendship Organization — **Richardson, TX**
President — *May 2023 – June 2024*

- Executed strategic initiatives that led to the formation of 5+ community partnerships and successfully organized a Vietnamese Lunar New Year gala attended by over 80 participants, resulting in a 20% increase in event engagement and fostering stronger cultural and community connections.
- Led initiatives to enhance internal communications and strategically manage a $10,000 budget, resulting in a 15% increase in engagement and satisfaction. This included implementing streamlined workflows, fostering cross-team collaboration, and aligning spending with organizational goals to maximize impact.