Mercedes Xiong

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Education

The University of Texas at Dallas — Richardson, TX

Bachelor of Science in Computer Science — *Spring 2027*

- Relevant Coursework: Advanced Algorithms, Data Structures, UNIX, Computer Architecture, Database Systems, Introduction to Machine Learning, Introduction to Computer Vision, Human Language Technologies

Work Experience

JPMorgan Chase & Co. — Plano, TX

Software Engineering Intern — *Jun 2026 – Aug 2026*

- Integrated **React** with a **Spring Boot REST API** for a banking platform serving **70M+ users**
- Built an **Amazon S3** upload workflow with validation and metadata tracking for legacy ingestion
- Tested **CI/CD** pipelines for **AWS** deployment with **97%** automated test coverage
- Developed a **batch ingestion pipeline** from **Amazon S3** to **Oracle** and **Amazon Aurora**
- Implemented an **Amazon SQS** workflow with retries and **DLQs** for resilient processing

Projects

Sage | Python, AWS Lambda, AWS DynamoDB, React.js, Tailwind CSS — May 2025 – Present

- Built responsive **React.js** interfaces for an AI advising platform serving **1,000+** UT Dallas students
- Developed mobile-first chatbot, authentication, profile, and degree planning flows using **Tailwind CSS**
- Integrated **AWS Lambda** APIs with the frontend to enable real-time AI advising interactions
- Connected **AWS DynamoDB** with **React.js** to synchronize user profiles and academic planning data

Semantica | React.js, Tailwind CSS, Python, AWS, PostgreSQL — Month Year – Present

- Built an LLM-powered book recommender using **HuggingFace Transformers** and semantic embeddings
- Engineered vector search with **sentence-transformers** and **pgvector** for embedding retrieval
- Modeled emotional arcs using NLP sentiment analysis and feature embeddings for recommendation ranking
- Designed a **custom design system** and **brand identity**, validating UX decisions through iterative **user testing**
- Deployed frontend on **Vercel** and backend on **AWS** for low-latency vector inference

Student Organizations

ACM Executives — Richardson, TX

Vice President — *Dec 2025 – Present*

- Led UT Dallas' largest ECS organization across eight divisions with **180+ officers** and cross-team collaboration
- Developed strategic initiatives with UTD faculty and staff to improve student engagement and community impact
- Directed execution of **100+ events** supporting professional development, networking, and technical growth
- Coordinated **executive operations**, resource allocation, and leadership initiatives to drive organizational growth

ACM Community — Richardson, TX

Community Director — *Aug 2024 – Dec 2025*

- Led two cross-functional teams of **20+ officers** to design and execute high-impact community events
- Increased event attendance by over **100%** through data-driven outreach, branding, and inter-org collaboration
- Mentored students in leadership, communication, design, and event logistics
- Conducted officer interviews, contributing to a **100%** increase in team size

ACM Development — Richardson, TX

Front End Developer & Designer — *May 2025 – December 2025*

- Contributed to **SAGE**, a full-stack web app featuring an AI chatbot simulating a UT Dallas academic advisor
- Designed and implemented responsive React.js components aligned with branding and UX standards

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C/C++, HTML, CSS
Frameworks & Tools: React.js, React Native, Next.js, Node.js, Spring Boot, Tailwind CSS, Figma
Cloud & DevOps: AWS (Lambda, S3, SQS, DynamoDB, Aurora, EC2), CI/CD, Git, GitHub, Vercel, Docker
Databases: PostgreSQL, Oracle, MongoDB, DynamoDB, Amazon Aurora, pgvector
AI/ML: HuggingFace Transformers, sentence-transformers, Vector Search, NLP, Semantic Embeddings