

Michelle Sang

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EDUCATION

The University of Texas at Dallas
Bachelor's Degree in Computer Science

August 2021 - May 2025

SKILLS

Relevant Coursework: Machine Learning, Artificial Intelligence, Database Systems, Advanced Algorithms, Data Structures, Probability & Statistics, Software Engineering, Operating Systems, UNIX

Languages: Python, Java, JavaScript, TypeScript, HTML/CSS

Technologies: React, Angular, Node.js, PostgreSQL, MySQL, Flask, LLaMA, C#

PROJECTS

Tweet Analysis | *Full-Stack Developer (Front-End Lead)* | *Python, React, Node.js, PostgreSQL, LLaMA, Figma*

- Designed and implemented a fully functional website dashboard, organizing data based on severity score via map and Tweet display with real-time updates
- Integrated Bluesky and Supabase APIs using custom scripts to automate and enhance data and image pulling
- Utilized generative AI to determine severity classification, experimenting with quantitative vs qualitative scores based on response from LLM

CATastrophe | *Game Designer* | *C#, Unity*

- Engineered physics-based movement and collision detection using Raycasting in Unity with C#, enabling smooth and realistic player interactions
- Programmed dynamic interactions between the player and in-game objects/models, enhancing gameplay responsiveness and immersion
- Designed and implemented a gradient-based UI element using 2D computer graphics techniques for visual aesthetics

RetailSync | *Full-Stack Developer (SCRUM Lead)* | *Python, Flask, MySQL*

- Designed an end-to-end full-stack e-commerce platform with real-time database integration and RESTful API endpoints for seamless data communication
- Debugged and resolved technical frontend and backend issues to maintain seamless user and database interactions
- Secured application with API-based database access, MFA, session management, and SQL injection safeguards

WORK EXPERIENCE

The University of Texas at Dallas | *Undergraduate Research Assistant*

December 2024 - Present

- Assisted in the development of a novel Artificial Intelligence dataset for meme interpretation
- Analyzed logical fallacies and designed annotation guidelines to improve dataset quality

City Of Carrollton | *Esports Data & Marketing Intern*

June 2024 - April 2025

- Led the construction of a newly launched esports center, designing and assembling 20 high-performance PCs
- Streamlined CRM processes, increasing revenue from previous esports center by over 500%
- Conducted research for data-driven decision making, whose feedback optimized marketing and event planning

Texas Auto Value | *Sales Associate*

April 2023 - September 2023

- Analyzed market trends and recommended the most profitable products based on time and resource considerations
- Recorded appraisal values of cars in Excel, resulting in an increase of up to 15 cars per week for the company

Vinebase | *Software Engineering Intern*

June 2020 - August 2020

- Engineered a Java-based web scraper to automate data analysis and visualization for over 100 winery locations
- Helped build foundational relationships and spread connections to all winery associations in California

LEADERSHIP EXPERIENCE

Filipino Student Association | *Family Leader*

August 2023 - Present

- Led a group of underclassmen as a "big sister" and mentor in academic and personal development
- Communicated with other organizations to host collaborative events that improved community engagement by 50%