

Qiaowen Mei

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EDUCATION

Northeastern University

Expected Graduation: Dec 2025

San Jose, CA

Master of Science, Major: Computer Science

University of West Alabama

Graduated: 2023

Livingston, AL

Bachelor of Business Administration, Major: Quantitative Finance and Economics

PROFESSIONAL EXPERIENCE

Algorithm Engineer Intern

June 2024 – Aug 2024

SuperADS

Guangzhou, China

- Developed and optimized a video subtitle translation system, and integrated the video translation workflow into **ComfyUI**, tested for over **50** video projects, improving system usability and boosting translation efficiency by **30%**, reducing processing time from hours to minutes.
- Designed and implemented a high-performance rendering engine using **OpenGL**, transforming text into dynamic video sequences for marketing and advertisement campaigns.
- Collaborated with cross-functional teams to implement and refine algorithmic solutions for media processing, ensuring high performance and scalability, and earned positive feedback from the team and manager for significant contributions to system optimization.

PROJECTS

E-commerce Website for Cat Products

Oct 2023 – Nov 2023

- Designed, developed, and deployed a dynamic, user-friendly, and readable full stack e-commerce platform, focusing on delivering an intuitive user interface, and user experience, robust shopping functionality, and easy and secure transaction.
- Integrated user authentication and account management using **Firebase**, providing secure login and registration functionalities, successfully supporting users for over **500**.
- Implemented a responsive and mobile-friendly design using **React.js**, **React Router**, **CSS**, **Bootstrap** to provide a seamless shopping experience across various devices, improving overall user experience.
- Created a comprehensive shopping, payment, order management system via **PayPal** and credit card options, facilitating secure transactions with an average of over **100** monthly purchases.

Housing Prices Prediction

Aug 2023

- Conducted a machine learning model in **Python** of Boston housing price dataset, examining all features, such as the number of rooms, employment status, education and so on. Using the Boston house dataset for training and testing.
- Implemented regression algorithms including **Linear Regression**, **Decision Tree** to evaluate the performance.
- Using various techniques, including histograms, scatter plots, to achieve a well-performing housing price prediction model with accurate price estimates by **90%**.

MySQL Migration Tool

Jul 2024 – Aug 2024

- Enhanced an existing MySQL migration tool by adding features to support **NoSQL** database migration. Engineered a seamless migration pipeline that reduced the average data migration time from NoSQL to MySQL by **30%**.
- Contributed over **1,500** lines of code, focusing on critical components such as schema translation, data mapping, and error handling.
- Conducted comprehensive testing and debugging, achieving a **98%** reduction in migration related error, ensuring smooth interoperability between relational and non-relational databases.

SKILLS

- Language:** Python (NumPy), JavaScript (React, Node.js, Typescript), C++, C, Java, CSS, Golang, Swift, R, HTML, Shell, Ruby,
- Tools/Frameworks:** MySQL, Git, Docker, Linux, MongoDB, AWS, Google Cloud Platform, Django, Flask, Angular, Flutter, Android Studio, Spring Root, RDS, Postman, Firebase, OpenGL
- Coursework:** Algorithm, Optimization, Linear Programming, Object-oriented Design, Web Application, Graphics Programming Midea Processing