Steven Mao

steven2003mao@gmail.com
https://linkedin.com/in/steven-mao
Missouri City, Texas
(832) 526 - 6790

Professional Experience

Software Engineer Intern | VISA   May – August 2023
- Developed end-to-end **Spring Boot** microservice to process VISA business clients into the network
- Performed QA Testing for robustness and unit testing for full coverage with **Junit 5**
- Setup pipeline and deployed whole API on **Cloudview** in **Docker + Kubernetes** environment
- Implemented data pipelining with **Kafka** for a data validation API to maximize throughput of data
- Experimenting predictive modeling with VISA's raw data, employing RNNs to forecast revenues

Teacher's Assistant | TAMU College of Engineering   August 2022 – May 2023
- Led recitation of **90**+ students and guided them through the process of engineering real-world solutions
- Collaborated with several TAs, spending 5+ hours weekly grading 3 different courses

Education

Texas A&M University, College Station, Texas   August 2021 – May 2025
Honors B.S. Computer Science, Mathematics Minor
GPA: 3.8
Coursework: Data Structures & Algorithms, Computer Organization, Computer Systems, Operating Systems, Machine Learning, Artificial Intelligence, Math Probability, Data Visualization

Projects

Binger: Reader and Library API   Present
Full-Stack
- Writing a performance-first **Rust API** using **Axum** that manages a memory-efficient digital library
- Heavily leverages **tokio** async, multithreading, atomic ops, and mutexes to accelerate performance
- Implement a dynamic proxy server that switches to async scraping based on traffic
- Designing a **Svelte/Kit** reader and library manager UI, optimized with SSR and lazy-loading

Restaurant Kiosk   February – May 2023
Project Manager
- Led a 5-man team using **Scrum Framework** to design kiosk software for a restaurant
- Distributed tasks to teammates in 2-week sprints while drafting burndown charts, stories, and backlogs
- Used **React** to design the UI and **Express.js** on **Nodejs** for the API to perform data processing
- Designed relational data models with **PostgreSQL** and hosted on **AWS**

Investart: Financial Trading Simulator   January 2023
Full-Stack – Hackathon 2023
- Design a stock simulator with LT events, news board, and historical data
- Wrote an opposing **Python** trading bot using various algorithmic strategies: regression, mean reversion…
- Utilized **React** to create a sleek interface and **Express.js** server to facilitate stock API data

Portfolio Websites (2): HTML/CSS/JS hosted on **Github Pages** ([2022 Portfolio](), [TAMU Portfolio]())   Jan 2023
Blubot: Music Streaming Discord Bot hosted on **AWS EC2** using Pycord API & FFMPEG decoder   July 2022
American Airlines Baggage Prediction: **SKLearn** Ensemble-based (RF) model with ~75% accuracy   Nov 2022

Skills

- Programming Languages: C++ | Python | Rust | Java | JavaScript | HTML/ CSS | C | Golang | SQL
- Libraries and Frameworks: React | Svelte | Spring Boot | Angular | Kafka | Express | Maven
- Technologies and Cloud: Git | AWS | Heroku | Google Cloud | MongoDB | Docker