Mei Zhang

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Dev Site ∘ Github ∘ Linkedin

EDUCATION

California State University Stanislaus — Turlock, CA

Bachelor of Science - Computer Science — Aug. 2022 - Dec. 2023

- Relevant Coursework: Software Engineering, Mobile Development, System Design, Cybersecurity, Applied ML, DSA.
- ECs: VP Computer Science Club, Compute Research Association, UC Merced Hack 23'.

SKILLS

Languages: Javascript/Typescript, SQL, Python, HTML/CSS, C/C++
Frameworks: React/React Native, Node/Express, Tailwind, Git, Docker, GCP/Kubernetes
Libraries: Numpy, Pandas, Scikit-Learn, PyTorch

EXPERIENCE

Patient Assessment App [Github] — Remote

Full Stack Developer - Commissioned — Dec. 2023 - Apr. 2024

- Developed a single-page application for a therapist to assess patient well-being; translating business requirements to usable React components (assessment customization, treatment references, and data visualization).
- Enabled data visualization feature by designing SQLite data schema to store historical and current user data, and developing separate API endpoints for data retrieval.
- Improved account security by implementing robust Argon2 parameters to encrypt and verify passwords on signup/login attempt.
- Delivered product by compiling final optimized build, containerizing full environment setup with Docker, and releasing development documentation.

PROJECTS

Restaurant Sharing App [Github] — May 2024 - Present

- Developed an iOS application for sharing restaurants; leveraging React Native to integrate account features, restaurant locations, and a recommendation system.
- Optimized API server response times by utilizing Axios to retrieve latency of nearby servers (IP geolocation-based), and prioritizing lowest response times.

Stock News Webscraper [Github] — Apr. 2024 - May 2024

- Implemented data pipeline for RNN model training by automating data collection scripted with Python; sourcing up to 300+ links for stock-related news.
- Refined data quality by preprocessing HTML data using SK-Learn to identify company names, Regex for various date formats, and further conditions for text normalization.

Online Thrifting App [Github] — Aug. 2023 - Dec. 2023

- Migrated inventory management to a distributed server using Node/Express to develop an API server for handling data.
- Improved data sourcing traffic from catalog grids by pooling MySQL connections for a limited number of requests.

Development Blog Site [Github] — Apr. 2023 - Sep. 2023

- Deployed a developer blog site using a GCP-hosted Apache server, and secured with SSL/TLS to a public domain.
- Streamlined site-wide updates by implementing a CI/CD pipeline scripted with Python and Bash; including test cases for resolving integration issues.

Macro Automation App [Github] — May 2022 - Sep. 2022

- Automated computer macros requiring object detection by leveraging AHK (scripting language) to screen scan and locate likely matches; triggering a macro execution.
- Increased performance speed by constraining object detection to screen areas with historically high number of hits.