Matthew Sah

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Education

Master of Software Engineering — **University of California, Irvine**
GPA: 4.00/4.00 — *Expected December 2024*

Bachelor of Science in Computer Science — **University of California, Irvine**
GPA: 3.74/4.00 — *September 2019 – June 2023*

Technical Skills

Proficient: Python, Go (Golang), JavaScript, TypeScript, MongoDB, SQL, MySQL, PostgreSQL, SQLite, Node, Express, React, HTML, CSS, Git

Familiar: Java, C++, Flask, Docker, RedHat Linux, Jest, MobX **Learning:** AWS

Experience

Software Engineer Intern — L3Harris Technologies
Colorado Springs, CO — *June 2022 – August 2022*

- Collaborated closely with a SCRUM team of 7 within the Space and Airborne Systems department to contribute to the development of a Satellite Counter Communications System simulator for training
- Leveraged TypeScript, Node, Express, and MongoDB to develop a backend REST API -- allowing an instructor to simultaneously manage up to 2 student systems in the Training Suite
- Utilized React, and MobX to create a corresponding interactive card component according to a detailed UI/UX mockup
- Thoroughly tested all components using Jest, achieving over 90% code coverage

Projects

Tweeter – Twitter Clone — *October 2023*
Go, PostgreSQL, Chi router

- Developed a backend system for a Twitter clone application using Go, Chi router, and PostgreSQL
- Designed and implemented the core functionality of the application, allowing users to create accounts, follow and unfollow users, post tweets, and view their feed
- Integrated PostgreSQL to store user data, tweets, and their relationships in an efficient manner

Notes — *September 2023 – October 2023*
Python, Flask, SQLite, HTML, CSS, Bootstrap

- Developed a simple notes application that enables users to create an account, sign in, write, and view their notes
- Leveraged Python, Flask, and SQLite to efficiently handle data storage, retrieval, and manipulation
- Implemented a user authentication system, ensuring secure access to user-specific notes
- Used Jinja, HTML, CSS, and Bootstrap to create a simple, responsive frontend

My Tennis Journal — *August 2022 – August 2023*
JavaScript, Node, Express, MongoDB, HTML, CSS, Bootstrap, React, Heroku, Netlify

- Designed and developed a full-stack web application allowing users to create an account, set and evaluate personal goals, and log practice sessions to track progress over time
- Utilized JavaScript, Node, Express, and MongoDB to create a backend capable of efficiently serving CRUD operations, enabling the application to effectively manage data and serve users
- Created and styled user-facing front end utilizing HTML, CSS, Bootstrap, and React
- Hosted and deployed the application using Heroku and Netlify

Search Engine — *January 2023 – February 2023*
Python, BeautifulSoup, nltk

- Built a Web Search Engine from the ground up using tf-idf scoring capable of handling 50,000+ web pages, under harsh operational constraints, with a query response time under 300ms
- Designed data structures and devised efficient file access to balance memory usage and query response times
- Utilized BeautfulSoup and nltk to scrape, clean, and process data from 50,000+ web pages to create the index