Tim Truong

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EDUCATION

University of Massachusetts Lowell   **September 2020 - May 2024**

B.S. in Computer Science, Mathematics Minor   GPA: 3.7

- Relevant Coursework: GUI Programming, Software Engineering, Operating Systems, Cloud Computing, Algorithms
- *Extracurriculars:* UML Table Tennis Club, Cloud Computing Club, ACM Club, Cybersecurity Club

TECHNICAL SKILLS

Programming Languages: C, C++, C#, TypeScript, JavaScript, Python, SQL (MySQL), Java, PHP, Bash
Frameworks/Libraries: SFML, Bootstrap, jQuery, ReactJS, NodeJS, ExpressJS, Jest, Pandas, scikit-learn, PyTorch
Developer Tools: AWS, Linux, Git, Figma, Firebase, Postman, Jira, Power BI, VMware, Sentry, GitLab, Datadog

PROFESSIONAL EXPERIENCE

UMass Lowell CS & Math Department - Teaching Assistant & Learning Assistant   **May 2023 - May 2024**

- Facilitated tutoring sessions to clarify intricate **GUI**, **version control**, and mathematical concepts, providing thoughtful feedback to enhance understanding of these principles for 80+ students.
- Implemented an automated grading script with **Jest** and **Pytest**, reducing grading time by 30% for 1000+ assignments.

Self-Employed - Freelance Web Developer   **April 2023 - September 2023**

- Developed and deployed robust web applications for multiple clients, delivering impactful digital solutions.
- Streamlined existing apps through rigorous **unit/integration testing** and performance improvements, reducing system downtime by 40% and ensuring optimal functionality.

PROJECTS

Secure Drop - https://github.com/teateatime/SecureDrop   **May 2024**

- Created a secure file transfer program inspired by Apple's AirDrop using **Python**, employing the **cryptography** library and **SHA-256 hashing** to ensure data confidentiality.
- Resolved scalability challenges with **multi-threading** and **asynchronous I/O**, reducing lag time by over 500ms.
- Architected a **client-server model** using **socket modules**, facilitating and accelerating reliable transfer speeds by 20%.

VSCode Timer Extension - https://github.com/teateatime/TypeScript_VSCode_Clock_Plugin   **December 2023**

- Developed a **TypeScript**-based VSCode plugin for time tracking and management, boosting productivity by 25%.
- Utilized **VSCode API** and **async functions** to deliver timely notifications, reducing waiting time from 1000ms to 250ms.
- Applied **Test-Driven Development (TDD)** practices to ensure the robustness and reliability of timer functionality, writing 30+ **unit tests** and seamlessly integrating them into the **Software Development Life Cycle (SDLC)**.

Animeta - https://animeta-6673e.web.app/   **July 2023 - August 2023**

- Engineered an Anime Management app using **FERN (Firebase, Express, React, Node.js) Stack** and **Jikan API,** integrating **Material-UI** and **React-Scheduler** components for efficient schedule management for 10+ users.
- Integrated **Firebase** for secure user authentication, implemented **caching** for faster data retrieval, and used **React Queries** for efficient data management, reducing **REST API** response times from 5 seconds to 1500ms.
- Maintained and improved performance reliability by 10% with **Postman** API testing and **Google Analytics**.

The Saving Portal - https://github.com/teateatime/TheSavingPortal   **January 2023**

- Led the creation of an automated cashback monitoring system with **Flask** and **Selenium**, proficiently analyzing data from 20+ platforms and showcasing optimal cashback rates through interactive visualizations using **EChartsJS**.
- Collaborated with software engineers using **Agile** workflows to define requirements, cutting development time by 15%.
- Utilized **Figma** for UI design and integrating **CI/CD pipelines** to ensure continuous updates to 10+ UI components.

LEADERSHIP ACTIVITIES & CERTIFICATIONS

JPMorgan Chase & Co. Software Engineering Certificate   **June 2024**
UMass Lowell Table Tennis Club - Member   **January 2022 - May 2024**
AT&T Summer 2021 Online Program - Summer Learning Academy Extern   **July 2021 - August 2021**