

Tim Truong

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EDUCATION

University of Massachusetts Lowell

B.S. in Computer Science, Mathematics Minor

Graduated May 2024

GPA: 3.7

EXPERIENCE

Clinical Assistant Analyst

August 2024 – Present

R3 Education

- Optimized PostgreSQL and Access databases using PHP, CTEs, and subqueries, cutting processing times by 25%.
- Reduced MS Access discrepancies with Power BI, minimizing errors in 5+ reports and boosting team efficiency.
- Designed a JS-based Acrobat checklist, later adapted in Excel to enhance coordination across 3 departments.
- Collaborated with IT to enhance the LMS/SIS UI for 300+ users using Figma, CSS, and Chrome DevTools.
- Facilitated team collaboration by quickly resolving roadblocks and optimizing downstream workflow.
- Automated ETL processes and document verification workflows using Google Sheets API, Google Apps Script, Python, and VBA, while ensuring FERPA compliance through performance testing for 100+ rotations.

Teaching Assistant (Full-Stack) & Learning Assistant (Pre-Calculus)

May 2023 – May 2024

University of Massachusetts Lowell

- Mentored 80+ students to clarify full-stack development and calculus concepts and refined jQuery assignments.
- Created an automated grading script with Jest and Excel, reducing grading time by 30% for 200+ assignments.

Web Developer

April 2023 – September 2023

Freelance

- Developed web apps for 3+ clients using Bootstrap and Agile practices to ensure optimal functionality.
- Refined apps using Lighthouse audits and unit/integration tests, improving uptime and performance by 40%.

PROJECTS

ComfortZone | <https://github.com/teateatime/ComfortZone>

January 2025 – Present

- Designed a job platform with TypeScript, React, and .NET, creating 3+ architecture diagrams for development.
- Applied Geocoding API for salary-based housing affordability, integrated TDD and end-to-end testing within the SDLC, and utilized XSS mitigation and Snyk vulnerability scans, improving platform security by 30%.
- Implemented Redux and Cross-Origin Resource Sharing (CORS) policies to ensure secure API communication.

Secure Drop | <https://github.com/teateatime/SecureDrop>

May 2024

- Created a secure file transfer app inspired by Apple's AirDrop, leveraging Python, socket modules, and a client-server model with cryptography and SHA-256 hashing for end-to-end data confidentiality.
- Resolved scalability challenges with multi-threading and asynchronous I/O, resulting in a 500ms reduction in latency for each message.

Animeta | <https://animeta-6673e.web.app/>

July 2023 – August 2023

- Engineered an Anime Management app using FERN Stack and Jikan API, integrating MUI and React-Scheduler components while refactoring a 2500+ line monolithic codebase into a modular format for 10+ users.
- Integrated Firebase for data handling, reducing API response times with caching and React Queries down to 1.5s.
- Enhanced reliability by 30% through Postman API testing and error tracking with Sentry and Google Analytics.

The Saving Portal | <https://github.com/teateatime/TheSavingPortal>

January 2023

- Refactored a React and Selenium cashback monitoring app to a Flask architecture, streamlining data analysis from 20+ platforms and showcasing cashback rates through interactive EChartsJS visualizations.
- Partnered with software engineers using Agile and Git workflows to define requirements, cutting dev time by 40%.
- Utilized Figma for UI/UX design, integrating CI/CD pipelines to ensure continuous updates to 10+ components.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, SQL, C/C++, C#/ASP.NET, Java, PHP

Libraries/Frameworks: SFML, jQuery, ReactJS, NodeJS, ExpressJS, Redux, Selenium, TensorFlow, Flask, Laravel

Developer Tools: AWS, Linux, Firebase, Postman, Datadog, Docker, GraphQL, Snyk, Jupyter Notebook, Webflow

Certifications: JP-Morgan SWE Certificate, Kaggle ML Certificate, AT&T Summer Extern