

Tim Truong

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EDUCATION

University of Massachusetts Lowell <i>B.S. in Computer Science, Mathematics Minor</i>	Graduated May 2024 GPA: 3.7
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EXPERIENCE

Clinical Assistant Analyst	August 2024 – Present
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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 improving team efficiency.
- Designed a JS-based Acrobat checklist in Figma, later adapted in Excel to boost processes across 3 departments.
- Collaborated with IT to enhance Moodle LMS/SIS UI for 300+ users through QA, CSS, and Chrome DevTools.
- Facilitated team collaboration by quickly resolving roadblocks and optimizing downstream workflow.
- Automated ETL and verification workflows with SQLAlchemy, Google Apps Script, Python, and VBA, using WinRAR AES-256/Windows EFS encryption and performance testing for FERPA compliance for 100+ rotations.

Teaching Assistant (Full-Stack) & Learning Assistant (Pre-Calculus)	May 2023 – May 2024
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University of Massachusetts Lowell

- Mentored 80 students in full-stack, WCAG 2.x accessibility, and calculus topics while refining 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
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Freelance

- Developed 3+ apps with Bootstrap and Agile, boosting performance by 40% via Lighthouse audits and unit tests.
- Enhanced site responsiveness and SEO by reducing load times by 1.2s through CDN plugins and semantic HTML.

PROJECTS

ComfortZone https://comfortzone-4f914.web.app/	January 2025 – June 2025
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- Designed a job platform with TypeScript, React and .NET, creating 3+ architecture diagrams for development.
- Applied TensorFlow and Geoapify API to map housing near job sites, integrated TDD and end-to-end testing across the SDLC, and improved platform security by 30% via XSS mitigation and Snyk scans.
- Implemented Firebase and CORS policies to ensure secure API communication and cloud hosting.

Secure Drop https://github.com/teateatime/SecureDrop	May 2024
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- 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 through multi-threading solutions, resulting in a 500ms reduction in overall latency for each message.

Animeta https://animeta-6673e.web.app/	July 2023 – August 2023
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- 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.
- Applied Firebase for cloud hosting and handling data, cutting load times to 1.5s with caching and React Queries.
- 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
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- Refactored a React/Selenium cashback monitoring app to a Flask architecture, streamlining data analysis from 20+ platforms with EChartsJS visuals while collaborating with engineers via Agile and Git to cut dev time by 40%.
- Utilized Figma for UI/UX design and supported CI/CD pipelines by linting and validation to 10+ components.

TECHNICAL SKILLS

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

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

Developer Tools: AWS, Linux, Firebase, Postman, Datadog, GraphQL, Snyk, Webflow, WordPress

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