

Tone Xie

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Personal Statement

Combining my background in structural engineering with a lifelong passion for software development, I've embarked on a journey fueled by my desire for crafting solutions and building tangible results. My goal is to apply my diverse skill set to make contributions to innovative software projects. I am eager to join a dynamic environment that not only promotes continuous learning and development but also embodies a strong commitment to professional growth with a positive and inclusive company culture. Outside of work, you'll often find me on the tennis court or immersed in a good book.

Work Experience

Graduate Teaching Assistant | Web Development | University of Auckland *Feb 2024 - Present*

- Guiding postgraduate students in mastering web development technologies as a tutor, emphasizing foundational concepts, responsive design, frontend and backend frameworks, database management, and version control systems.

Frontend Engineer Intern | Fourier Labs | Remote *Nov 2023 - Jan 2024*

- Led the optimization of a React website's responsiveness using Tailwind CSS, ensuring seamless user experience.
- Implemented new components and enhanced functionality for a Vue.js website based on Figma design specifications.
- Demonstrated commitment and drive in learning new technologies through rapid acquisition of skills in React, Vue.js, and Tailwind CSS with no prior knowledge.

Structural Engineer | Harris Foster Consulting Group | Auckland *Jun 2022 - Apr 2023*

- Effectively managed and coordinated work on hundreds of different projects from terrace housing and 3-story standalone homes, to housing developments up to 17 blocks at a time, to issuing CANs addressing on-site issues.
- Consistently demonstrated exceptional time management skills and work efficiency, successfully managing up to 20 concurrent projects with a strong track record of meeting deadlines and delivering within budget.

Graduate Structural Engineer | TMC Consulting Engineers | Auckland *Jun 2021 - Feb 2022*

- Completed over 60 projects, including structural calculations, CAD drawings, and preparation of BC documents.

Intern → Graduate Engineer | MEC Consultant Engineering | Auckland *Dec 2019 - Feb 2021*

Projects

Personal Portfolio Website | Live Site: tx-portfolio.netlify.app

- Crafted a dynamic portfolio website using React and Tailwind showcasing my projects and experience. Check it out!

Full-stack Blog Application using Express.js, JavaScript, Handlebars, CSS in Team Environment

- Implemented a secure authentication system with database storage, incorporating hashing and salting, session management through tokens in cookies, and dynamic client-side verification via AJAX calls to API endpoints.
- Utilized Handlebars.js for server-side rendering, implemented the DAO (Data Access Object) model with SQLite for efficient database management, and ensured a streamlined content control experience with a WYSIWYG editor.
- Served as the primary reviewer for over 100 pull requests as well as solving merge conflicts, meticulously examining code changes for quality, correctness, and ensuring consistency.

Interactive Pokemon Data Viewer Website

- Created an interactive website using HTML, CSS, and JavaScript, with multiple theme selectors.
- Utilized AJAX requests and API calls to third-party applications for enhanced functionality.

Education

Masters of Information Technology | University of Auckland *Jun 2023 - Present*

- Advanced Information Security | Creating Maintainable Software | Advanced Topics in Database Systems

Postgrad Cert. of Information Technology | University of Auckland | A+ (96%) *Jun 2023 - Nov 2023*

- Programming for Industry | Programming with Web Technologies

Bachelor of Engineering Honours | University of Queensland | Brisbane *Feb 2017 - Jan 2021*

International Baccalaureate | Diploma Auckland International College *Jun 2014 - Jul 2016*

Skills

