




# Tone Xie

Aspiring Software Engineer | Former Structural Engineer | NZ Citizen

West Harbour, Auckland | Open to Relocate 

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Site: [tx-portfolio.netlify.app](https://tx-portfolio.netlify.app) 

I am a highly motivated aspiring software engineer currently pursuing a Masters of Information Technology, with a background in structural engineering that's honed my problem-solving skills and attention to detail. I am passionate about the software engineering field, where I aim to leverage my diverse skill set to contribute to new exciting projects. I am eager to join a dynamic environment that not only promotes continuous learning and development but also embodies a positive and inclusive company culture. Outside of work, you will often find me on the tennis court or engrossed in a 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

Mar 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](https://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.

### MERN Stack Student Course Review Application

- Engineered a MERN Stack website facilitating student course reviews, prioritizing mobile-first design.
- Integrated a dynamic QR code verification system to authenticate reviews. The dynamic nature of the QR code generation prevents duplication, ensuring the integrity of the reviews on the site.

## Education

### Masters of Information Technology | University of Auckland

Jun 2023 - Present

- Clubs:** Web Dev. & Consulting Club | Software Eng. Students Association | Developers Society | Tennis Club
- Courses:** Advanced Topics in Database Systems | Advanced Information Security | Software Tools and Techniques

### Postgrad Cert. of Information Technology | University of Auckland | A+ (96%)

Jun 2023 - Nov 2023

- Courses:** 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

Java

JavaScript

MongoDB

ExpressJs

React

NodeJs

Svelte

VueJs

HTML

CSS

Tailwind

GitHub

Python

SQL

English Native

Mandarin Fluent

AutoCAD

Bluebeam

SpaceGass

SAP2000

LeanIX

Microsoft Office Suite