

Tone Xie

Software Engineer | Structural Engineer | NZ Citizen

West Harbour, Auckland | Open to Relocate

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Website: tx-portfolio.netlify.app

Work Experience

Graduate Teaching Assistant | Web Development | University of Auckland

Feb 2024 - Present

- Guiding 30+ 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

- Created 10 new components and enhanced functionality for existing client facing Vue.js and React websites based on Figma design specifications, contributing to the development of a blockchain smart contract service.
- Collaborated with stakeholders and designers to ensure a positive feedback loop.
- Rapidly upskilled in React, Vue.js, and Tailwind within a 2 week period, resulting in early project completion.

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 | Website: tx-portfolio.netlify.app

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

Lecturmo | Full-Stack Student Course Review Application

- Led development and engineering of a mobile-first, MERN stack application facilitating student course reviews.
- Integrated dynamic QR code system for real-time attendance verification, enhancing review credibility.
- Leveraged OpenAI API to implement AI-driven summaries for concise and informative course reviews.
- Implemented email verification to confirm user affiliation with Auckland University, further enhancing user credibility.

AI Forum NZ | AI for the Environment Hackathon 2024

- Won People's Choice Award for our pitch on protecting biodiversity through a pest control strategy to eliminate stoats.
- Prototyped an AI model trained on historical and environmental data to predict stoat behavior, guiding trap placement to make pest control more effective.

Full-Stack Blog Application

- 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.

Education

Masters of Information Technology | University of Auckland | GPA: 8.75/9

Jun 2023 - Present

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

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

Figma

Tailwind

GitHub

Python

SQL

SAP Build

English Native

Mandarin Fluent

AutoCAD

Bluebeam

SpaceGass

SAP2000

LeanIX

Microsoft Office Suite