

Ray Zhao

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EDUCATION

UNIVERSITY OF AUCKLAND

Bachelor of Science - Major in Computer Science

Auckland, NZ

Mar 2023 - Nov 2025

Relevant Coursework: Applied Algorithms, Large-Scale Software Development; Functional Programming; Artificial Intelligence

WORK EXPERIENCE

WDCC (WEB DEVELOPMENT & CONSULTING CLUB)

Auckland, NZ

Full Stack Developer

Mar 2024 – Nov 2025

Key Project

WEB PLATFORM FOR THE STUDENT CLUB - UASC

Mar 2024 - Nov 2024

- Developed a scalable booking and payment system handling over 4000+ registered active users and processing over \$80k NZD in online transactions.
- Architected a modular UI component library covering >70% of the frontend, ensuring visual consistency and high-performance rendering that accelerated feature development.
- Collaborated with a team of 12 as a top contributor, led implementation of core public-facing features (event, profile, booking and about page), personally delivering over 60% of the application pages.

PROJECTS

COLAB - LARGE SCALE FULLSTACK APPLICATION

Technical Lead | Aug 2025 - Nov 2025

- Engineered a production-grade web based trading platform with user authentication, ordering and an inventory management system for chemical reagents across labs in NZ using Next.js, React, Tailwind CSS and TSOA
- Led a development team to produce over 80% of the total pull requests and managed all code reviews, ensuring strict adherence to clean code standards.
- Designed bulk-fetch API endpoints capable of retrieving 200+ reagent datasets in a single HTTP request, reduced API latency by ~60-80% (under 100 ms)
- Independently migrated the backend deployment on AWS (EC2) from LA to Sydney with PM2 for process management and SSH for secure remote access. Reduced the end-to-end latency of the application by ~80%

PERSONAL WEBSITE - FULLSTACK WEB APPLICATION

Feb 2025 - Mar 2025

- Designed and developed the entire application independently, creating a cohesive, scalable and original UI/UX across the platform using Tailwind CSS and Shadcn.
- Architected a static-first web platform using Next.js (SSG) and Tailwind CSS, serving 100+ pages without database dependencies (stored in static JSON files)
- Optimized data loading by implementing bulk data fetching during static pre-rendering, reduced client-side render latency by ~40-60% and achieved zero server cost

STOCK ANALYZER - ALGORITHMIC CLI TRADING TOOL

May 2025 - Present

- Developed a stock screening tool with Python to analyze 4000+ NASDAQ stocks via Yahoo Finance API
- Implemented linear time complexity O(N) algorithms to identify momentum gainers, processing daily market data in under 3 seconds for each stock.
- Implemented modular programming strategy with a plugin system allowing users to define custom indicators, improving code extensibility and maintainability.

Technical Skills

Frontend: **Next.js, React, HTML, CSS, Tailwind CSS, Vite**

Backend: **ASP.NET, Typescript Open API (TSOA), Python Flask, Express.js, Java Springboot**

Languages: **Typescript, Javascript, C#, Python, Java, C**

DevOps: **Vercel deployment, Firebase hosting, AWS(EC2), Git, Github Actions(CI-CD pipeline)**, staging/production env config