

Education

University of Auckland

March 2019 — December 2022 (Expected)

Major: Bachelor of Advanced Science with Honours (PG) | Computer Science (Third year)

Coursework: Algorithm & Data Structure, OO Software Development, Computer Systems, Big O, HCI, Discrete Mathematics

Work Experience

Canary Data solutions

Software Engineer | September 2020 — Current

- Working in a team of 3, we improved the robustness of the system by rewriting over 150 JavaScript files into TypeScript files
- Complete redesign of the company website (under development)
- Communicate directly with clients to carry out feature requests and / or to resolve problem report

- **Tech stack:** ASP.NET • C#/VB • TypeScript • Knockout/Vue • mssql • TeamCity/Jenkins • TortoiseHG • Octopus Deploy

yourcar.co.nz

Junior Developer | January 2020 — Current

- Created a script that calculates and returns the number and percentage of written-off New Zealand new vehicles after the first 18 months of purchase
- Improve the system durability by testing the front-end using cypress
- Gained valuable experience of working in a fast-paced startup environment

- **Tech stack:** Next.js • Node.js • GraphQL • Jest • Cypress • HubSpot

Chancery investment banking interview App

Software Engineer | Sep 2020 — Feb 2021 | Berkeley, CA

- Improved front-end fetch logic by adding helper functions
- Improved mobile browsing experience by redesigning the mobile layout
- Created the front-end UI and logic for feedback button

- **Tech stack:** React • Node.js • jQuery • Bootstrap

Software Projects

Personal Website: richard-lee.com (for additional information)

Chrome extension to enable YouTube comment section

- Developed a Chrome browser extension that lets user comment on “comment disabled” YouTube videos
- Created an algorithm that sorts comments with timestamp and number of likes as attributes
- Host on AWS with AWS DynamoDB and AWS Lambda
- Integrated OAuth and OpenCV for one-click log in

- **Utilised:** jQuery • AJAX • AWS DynamoDB • AWS Lambda • Serverless • Chrome extension SDK • Node.js

Nasdaq ETF portfolio copier and autotrader

- Developed an automation software that fetches ETF portfolios from web API and calculates changes made since the last fetch
- Software will send out daily reports to notify the user of portfolio changes
- When connected to trading brokers, the software can use API calls to execute orders

- **Utilised:** Node.js • AJAX • TypeScript • Moment.js • Nodemailer • Shell commands • Beautifulsoup

News and information App

- Developed an App for my University Club to share information and news, as well as upcoming events
- Developed an API for the App with the functionalities of GET and POST
- Currently maintaining the App, including posting new articles, fixing bugs and issuing updates

- **Utilised:** React Native • Expo • Node.js • AWS DynamoDB • AWS Lambda • Serverless

Skills

Proficient: JavaScript/TypeScript • ASP.NET • React/React Native • AWS • Python • Git (Version Control)

Familiar: C#/VB • Serverless • Jest • Cypress • GraphQL • mssql • TeamCity • Octopus Deploy