



## Education and Leadership

### The University of Sydney, Australia

Bachelor of Science (Honours)

- Academic teaching assistant for SOFT2412 - Agile Software Development Practices (Java)

Computer Science

### The University of Auckland, New Zealand

Bachelor of Science

- Founder of the UoA Motorsport Club with approximately 800 members (2022)

Computer Science

## Employment

### SLIK Creative Agency | Sydney, Australia

Creative Software Engineer | June 2022 – December 2022

- Created Australia's **first** Metaverse virtual playground with Three.js and Blender for hosting virtual meetings and corporate events
- Developed statically generated web apps with Gatsby for Nine News, including **Sydney Morning Herald's Annual Impact Report**
- Migrated a legacy email builder app from Angular to React for better maintainability and redesigned its UI for a refined user experience
- **Tech stack:** React/Gatsby • Contentful • Node.js/Nest.js • MongoDB • Three.js • GSAP • Blender • Netlify • Heroku • AWS

### Government of New Zealand, Waitemata District Health Board

Software Engineer (Fixed term) | Aug 2021 – Feb 2022

- Developed and designed a monitoring web application with Angular and .NET Core to monitor hospitals' legacy system status
- Implemented and designed a bespoke management dashboard web application for the admin to manipulate data stored in Redis
- Improved Google Chrome's lighthouse score for an application by over **60%** by redesigning the frontend layout structure
- **Tech stack:** Angular • .NET • Redis • C# • TypeScript • Oracle SQL Database • Jira • Azure DevOps

### Canary Data Solutions Ltd. | Auckland, New Zealand

Software Engineer | September 2020 – August 2021

- Engaged and worked with clients from all sectors to develop custom applications to suit their business needs
- Complete redesign of the company website by incorporating modern design principles (<https://www.canary.co.nz/>)
- Reduced an application's runtime error by over **65%** by migrating the backend server to TypeScript and introducing unit tests
- **Tech stack:** Vue • TypeScript • ASP.NET • C#/VB • Microsoft SQL Server • Knockout.js • Jenkins • TeamCity • Octopus

### Yourcar (Startup) | Auckland, New Zealand

Intern Software Developer | January 2020 – September 2020

- Developed an internal tool that calculates the write-off percentage of New Zealand new vehicles in the first 18 months of purchase
- Improved company web application's durability by implementing a complete functional test on the frontend site using Cypress
- Gained valuable professional experience by working in a fast-paced startup environment
- **Skills gained:** React/Next.js • PostgreSQL • GraphQL • Postman API Testing • Jest • Cypress • HubSpot • Barista Skills! ☕

## Software Projects

**Personal Website:** [richard-lee.com](https://richard-lee.com) (For additional information)

### Leetcode Algorithm Practice Web Application

- Designed and developed a coding practice web application to try out the new Vue Nuxt 3 framework
- Incorporated persistent data storage to store and retrieve user comments and track study progress
- Implemented IBM's Carbon Design System for user interface design to achieve a clean and streamlined user experience
- **Utilised:** Vue 3 • Nuxt 3 • TypeScript • Tailwind CSS • Carbon Design System • Caching • Persistent Data Storage

### University of Auckland Motorsport Club Mobile Application

- Developed a cross-platform mobile App for my University Club to share news and upcoming events using React Native and Expo
- Created a backend API for the App with AWS DynamoDB and AWS Lambda using the Serverless framework
- Maintenance of the App including posting new articles, fixing bugs and issuing updates
- **Utilised:** React Native • Expo • React Router • AWS DynamoDB • AWS Lambda • The Serverless Framework

## Software Skills

**Proficient:** JS/TypeScript • C# • AWS • React/Gatsby • .NET • React Native • Angular • Three.js • GSAP • Java • Python

**Familiar:** Go • C • VB • SQL • Vue/Nuxt • GraphQL • Jest • Cypress • Chromium SDK • Docker • TeamCity • Octopus