



Sydney, Australia

# Richard Lee

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@richard875

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## Software Skills

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

**Familiar:** Swift • Svelte • MongoDB • Terraform • Docker • Ansible • VB • Vue/Nuxt • GraphQL • Jest • Cypress • Three.js

## Employment

### Qantas Airways | Sydney, Australia

Senior Software Engineer | December 2022 – Current

- In a team of **Five**, I led the successful delivery of the largest internal marketing application serving over **150** employees across **12** Qantas Loyalty Marketing Channels leveraging **Preact**, **AWS Lambda**, and **Amazon RDS**.
- Implemented a new deployment pattern collaborating with DevOps Team utilising **Akamai**, **AWS Lambda**, and **Elastic Load Balancer**.
- Reduced organisational AWS expenditure by over **\$55,000 annually** through strategic decommissioning of a redundant prior project.

- **Tech stack:** Preact • Express.js • AWS Lambda • AWS RDS • AWS Redshift • Jenkins • Terraform • Ansible • Splunk • Jest • Mocha Test

### SLIK Creative Agency | Sydney, Australia

Creative Software Engineer | June 2022 – December 2022

- Pioneered Australia's **First** Metaverse Virtual Playground utilising **Three.js** and **Blender** for corporate gatherings and virtual meetings.
- Engineered static web applications leveraging **Gatsby** for **Nine News**, including **Sydney Morning Herald's Annual Impact Report**.
- Undertook the migration of a **legacy** email builder app from **Angular** to **React**, optimising maintenance and enhancing user interface.

- **Tech stack:** React/Gatsby • Node.js/Nest.js • MongoDB • Contentful • AWS S3 • Three.js • GSAP • Blender • Netlify • Heroku

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

Software Engineer | Aug 2021 – Feb 2022

- Developed and designed a web application utilising **Angular** and **.NET Core** to monitor hospitals' legacy system status.
- Conceptualised and implemented a bespoke management web app empowering administrators to manage data stored in **Redis**.
- Elevated an application's **Google Chrome Lighthouse Score** by over **60%** through a complete redesign of the frontend layout structure.

- **Tech stack:** Angular • .NET • C# • TypeScript • Redis • Oracle SQL Database • Jira • Azure DevOps

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

Software Engineer | September 2020 – August 2021

- Collaborated closely with clients across industries to architect and deliver tailor-made applications aligning with their business needs.
- Implemented an overhaul of the corporate website with **ASP.NET**, injecting modern design principles for an enhanced user experience.
- Reduced an application's runtime error by over **65%** by migrating the backend server to **TypeScript** and introducing **Unit Tests**.

- **Tech stack:** Vue • ASP.NET • C#/VB • TypeScript • Microsoft SQL Server • Jenkins • Knockout.js • TeamCity • Octopus Deploy

## Software Projects

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

### Maily - Email Tracking and Analytics for Apple MacOS Mail

- Engineered and crafted an email tracking and analytics software leveraging **Swift** and **Swift UI**, facilitating comprehensive email click monitoring and statistical analytics for **MacOS Mail**.
- Architected a highly responsive and scalable backend system supporting **RESTful API** and **WebSocket** utilising **Go's Gin Framework**.
- Implemented **Infrastructure-as-Code** by deploying to **Oracle Cloud** using **Terraform** for streamlining operational efficiencies.

- **Utilised:** Go Language • Go Gin Framework • Swift UI • Oracle Cloud Infrastructure • Terraform • MySQL • Apple Developer SDK

### Algome - Leetcode Algorithm Practice Web Application [↗](#)

- Conceptualised, designed and developed a modern coding practice web application leveraging the **Vue Nuxt 3** framework.
- Incorporated robust **persistent data storage** functionalities, facilitating seamless user comment storage and study progress tracking.
- Adopted and implemented **IBM's Carbon Design System**, elevating the UI to deliver a polished and intuitive user experience.

- **Utilised:** TypeScript • Vue 3 • Nuxt 3 • Tailwind CSS • IBM Carbon Design System • Caching • Persistent Data Storage

## Education and Leadership

**The University of Sydney, Australia** | Bachelor of Science (Honours) | Computer Science

- Academic Teaching Assistant for **SOFT2412 - Agile Software Development Practices (Java)**