

# Lachlan Miller

Engineering manager and software engineer with 10+ years of experience in healthcare technology and bioinformatics. Passionate about open source and building high-performing engineering teams.

[Download resume \(PDF\)](#).

## Recent Work History

### **Microba Life Sciences**

May 2025 - Present

#### Engineering Manager

Genomics-based microbiome diagnostic test

- Managed a team of 6 engineers, guiding the team through organisational restructures while maintaining delivery velocity.
- Drove adoption of product analytics to inform strategic decisions, helping sway the overall trajectory of the organisation.

### **Microba Life Sciences**

Aug 2024 - May 2025

#### Technical Lead

Genomics-based microbiome diagnostic test

- Led the transformation of Microba from a scrappy science startup into a robust software engineering organisation.
- Led engineering projects spanning engineering, science and clinical teams, bridging world-class academic research with industry product development.

### **Cypress.io**

Dec 2020 - June 2024

#### Technical Lead (JavaScript, Vue.js, React.js, Node.js, AWS)

Browser testing for modern teams

- Helped grow [Cypress](#) from a small engineering organisation into a leading development tool used by millions of developers.
- Wrote highly optimised code, benchmarked and performance tuned the core test runner, and engaged with the open source community to shape the product roadmap.
- Coordinated sprint planning, retrospectives, and cross-team efforts to ship features from inception to release.

### **DoseMe**

Nov 2018 - Nov 2020

## Senior Engineer (JavaScript, React, Perl)

Precision dosing software for therapeutic drug monitoring

- I worked on therapeutic dosing software, used to simulate outcomes of IV drugs, primarily Vancomycin.
- As a medical device, my expertise and experience with writing testable, defensive code was a key criteria in DoseMeRx's success and market adoption.
- Led development of the SMART on FHIR integration, which led to widespread adoption of DoseMe's drug models.
- Introduced in implemented End to End testing across DoseMe web platform.

► Additional roles available upon request

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## Products and Projects

I have a [YouTube channel](#) where I share my thoughts and philosophy on software. I've also written a book about JavaScript design patterns, writing testable code, and share other insights I've learned over my years of working on complex web apps.

### Design Patterns for Vue.js

I wrote an advanced book about Vue.js called [Design Patterns for Vue.js](#). There is a distinct lack of advanced content for JavaScript engineers - I am looking to change that.

### Vue.js Testing handbook

I authored a book about Testing Vue.js applications. It is viewed over 1M times year. It is probably the most popular resource on testing Vue.js applications. You can find it [here](#).

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## Qualifications

- 2026: Masters of Bioinformatics (University of Queensland)
- 2016: Bachelor of Engineering (Software & Electrical System) (QUT, Brisbane)
- 2016: Japanese Language Proficiency Test (N1, native proficiency)