

# COLTON RANDALL

## SOFTWARE ENGINEER



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Auckland, New Zealand

### SKILLS

#### Languages & Frameworks:

- C#, .NET, Java 8/17, Spring Boot
- React, TypeScript, JavaScript, CSS

#### Cloud & Infrastructure:

- AWS (EC2, S3, SQS, Lambda)
- Docker, Kubernetes
- Terraform IaC

#### Architecture & Development:

- Microservices, REST APIs, System design

#### Monitoring:

- New Relic, Sumo Logic, Splunk

#### DevOps & CI/CD:

- GitHub Actions, Jenkins, TeamCity, Octopus, Spinnaker, Pipeline scripting (Kotlin & YAML), SonarQube

#### Testing:

- Unit & integration testing: JUnit, TestNG, Spring Test, NUnit, Mockito, Cucumber/Gherkin, Wiremock
- Frontend & E2E: Jest, Cypress, Puppeteer

#### Databases:

- Oracle, MySQL, DynamoDB

### EDUCATION

Jun 2021 - Nov 2021

#### Master of IT - MInfoTech (Half completed)

University of Auckland

- Cloud Computing Architecture in AWS - **AWS Cloud Practitioner certification.**
- Creating Maintainable Software in Java.
- Health Informatics.
- System Dynamics and Complex Modelling.

Mar 2021 - Jun 2021

#### Postgraduate Certificate in IT

University of Auckland

- Certificate of Outstanding Achievement**
  - Web Development Technologies.
  - Programming for Industry in Java.

Feb 2015 - Dec 2018

#### BSc Biochemistry

University of Otago

- Bioinformatics - Using R programming in oncological context.

Software Engineer with 4+ years building full-stack systems across SaaS products (Xero) and large-scale enterprise banking (Westpac). Strong backend expertise in Java/Spring Boot and C#/.NET, frontend development in React/TypeScript, with cloud infrastructure experience in AWS and CI/CD automation. Proven track record of increasing test coverage significantly (40% at Xero, 20% at Westpac), mentoring engineers, and delivering high-impact customer-facing features.

### WORK EXPERIENCE

#### Software Engineer

##### Westpac New Zealand

Auckland, New Zealand  
Apr 2025 - Present

- Worked alongside infrastructure teams on Azure and Terraform implementations.
- Delivered customer-facing features to production including transaction enrichment features and document download capabilities, engineering end-to-end REST APIs from design to deployment.
- Used Java 17 and Spring Boot to build SDK features for internal API standardisation and developer experience within the bank.
- Increased test coverage from 60% to 80% through comprehensive unit and API testing while modernising backend systems for improved reliability.
- Mentored junior engineers and collaborated with Solutions Architects on designs for Payments and Customer Alerts.

#### Full-Stack Software Engineer

##### Xero

Auckland, New Zealand  
Nov 2021 - Apr 2025

#### Intermediate Engineer

Jul 2024 - Apr 2025

- My team won Xero's internal hackathon by building a Chart of Accounts export feature that was adopted into production, improving customer experience.
- Increased automated test coverage by 40% by refactoring legacy React codebases, building comprehensive test suites, and optimising CI/CD pipelines for faster, more reliable deployments.
- Developed scalable cloud-native applications on AWS using Lambda, S3, and SQS, supporting high-volume customer transactions and serverless architectures.
- Enhanced production monitoring and diagnostics with New Relic, reducing mean time to detection and resolution for critical incidents.

#### Associate Engineer

Feb 2023 - Jul 2024

- Enhanced six full-stack conversion tools for Practice Onboarding, designing RESTful APIs and implementing serverless AWS solutions (Lambda, S3, DynamoDB) to streamline customer migration and improve scalability.
- Mentored a graduate engineer and led incident resolution, partnering with stakeholders to diagnose production issues and deliver customer-focused solutions.

#### Graduate Engineer

Feb 2022 - Feb 2023

- Delivered full-stack features across multiple teams, gaining exposure to C#, React, MySQL, AWS, Docker, and Kubernetes in an Agile environment.
- Strengthened technical foundation in automated testing, TDD, clean code practices, and backend development through pair programming and code reviews.

#### Intern Engineer

Nov 2021 - Feb 2022

- Improved system performance and maintainability by engineering parallel API calls and migrating FeatureFlag functionality to a decoupled service architecture.
- Presented implementation solutions to stakeholders and the wider portfolio.

#### Bioinformatics Research Assistant

##### Landcare Research | University of Auckland

Auckland, New Zealand  
Jul 2020 - Mar 2021

- Applied Python and computational analysis to assist PhD research, including genome assembly, molecular simulations, and data quality improvement.

## VOLUNTEER EXPERIENCE

### PROJECTS



#### Personal Website

React, CSS (MUI), HTML  
Portfolio site showcasing projects and technical experience.

May 2021 -  
Ongoing



#### Bank App - Full Stack React, Java 21/Spring Boot, Docker, CI/CD, REST API

Full-stack banking application featuring RESTful API integration, Dockerised PostgreSQL database, and enterprise architecture patterns.

September 2025 -  
Ongoing



#### AI Code Explainer

Next.js, TypeScript  
AI-powered code analysis tool using OpenRouter API to generate explanations for code snippets.

August 2025



#### Notes App - Full Stack

React, Java, Spring Boot  
Google Keep-inspired application with REST API backend, responsive Masonry layout, and complete note management functionality.

July 2025



View more projects at  
[github.com/coltonrandall](https://github.com/coltonrandall)

### Conservation Volunteer

Motuihe Restoration Project

- Each year, I participated in a full day of restoration work on Motuihe Island, through Xero's volunteer programme, weeding and/or planting new trees.

Auckland, New Zealand  
Feb 2022 - Feb 2025

### Volunteer Teacher

Elite Visionary High School

Kibera Slums - Nairobi, Kenya  
Jun 2016 - Jul 2016

- Designed and presented Math and Physics lessons to students at Elite Visionary High School, located in Kibera, Nairobi's largest slum.

### Health Administrative Assistant

Kibera Community Health Centre

Kibera Slums - Nairobi, Kenya  
Jun 2016 - Jul 2016

- Helped Doctors administer medicine and treatment to sick patients in Kibera.

### Volunteer Tutor / Caregiver

Home of Hope

Kigali, Rwanda  
Mar 2013 - Apr 2013

- Taught English to orphaned children and teens.
- Looked after kindergarten children at a local school in Kacyiru.

## COURSES & CERTIFICATIONS

### Certified Cloud Practitioner

AWS  
Sep 2021

### Practice Java by Building Projects

Udemy  
Jan 2021

### Java Fundamentals

Codecademy  
Dec 2020

### Python 3

SoloLearn  
Dec 2020

### Python 3 Programming

Fundamentals  
Coursera  
Nov 2020

### GitHub Ultimate: Master Git and GitHub

Udemy  
Sep 2020

### HTML, SQL & Javascript

Fundamentals  
SoloLearn  
May 2020