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

- Won Xero's internal hackathon by building 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 optimiding 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.

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

VOLUNTEER EXPERIENCE

Conservation Volunteer
Motuihe Restoration Project

Auckland, New Zealand
Feb 2022 - Feb 2025

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

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