COLTON RANDALL

SOFTWARE ENGINEER

CONTACT

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SKILLS

Languages & Frameworks:
- C# / .NET
- React
- TypeScript
- Java
- Spring Boot
- Testing (Jest, NUnit, Playwright, JUnit)

Cloud & Infrastructure:
- AWS (EC2, S3, SQS)
- Microservices Architecture with API development

Databases:
- NoSQL (DynamoDB)
- SQL (MySQL)

CI/CD & Automation:
- TeamCity | Octopus
- Spinnaker
- Jenkins
- Docker
- Pipeline Scripting - Kotlin

EDUCATION

Master of Information Technology (MInfoTech) - Half completed
University of Auckland
Jun 2021 - Nov 2021
- Cloud Computing Architecture in AWS - **AWS Cloud Practitioner certification.**
- Creating Maintainable Software in Java.
- Health Informatics.
- System Dynamics and Complex Modelling.

Postgraduate Certificate in IT (PGCertInfoTech)
University of Auckland
Mar 2021 - Jun 2021
- **Certificate of Outstanding Achievement (A-grade average)** in both courses:
  - Web Development Technologies.
  - Programming for Industry in Java.

BSc Biochemistry
University of Otago
Feb 2015 - Dec 2018
- Bioinformatics - Using R statistical programming in a biological context.

Passionate and empathetic Software Engineer with experience across both fast-paced product teams and large-scale enterprise systems. I apply first-principles thinking to craft creative, efficient solutions to complex technical problems. Curious and growth-oriented, I thrive in collaborative environments, combining critical thinking, technical expertise, and system design skills to deliver impactful, customer-focused results.

WORK EXPERIENCE

Software Engineer
Westpac New Zealand

Auckland, New Zealand
Apr 2025 - Present

- Modernised backend systems with Java 17 and Spring Boot, improving scalability.
- Supported microservices and monoliths, enhancing system reliability.
- Delivered high-quality code for transaction enrichment, mentoring engineers.
- Boosted unit test coverage from 73% to 80%, improving maintainability.
- Assisted a Solutions Architect on cards/products gaining system design exposure.

Full-Stack Software Engineer
Xero

Auckland, New Zealand
Jul 2024 - Apr 2025

- Refined expertise in C#/.NET, React, and TypeScript across frontend and backend projects.
- Built CI/CD pipelines with TeamCity; automated workflows using Kotlin and managed infrastructure with Terraform.
- Developed cloud-native solutions on AWS (DynamoDB, EC2, SQS, Lambda, S3).
- Wrote unit, integration, and E2E tests using NUnit, Cypress, Jest, Playwright, and Puppeteer.
- Containerized applications with Docker, Kubernetes, and Helm.
- Used New Relic and Sumologic for system monitoring and diagnostics.
- Modernised legacy codebases in Razor (cs.html) by improving modularity, and improved test coverage by 40%.

Associate Full-Stack Engineer
Xero

Auckland, New Zealand
Feb 2023 - Jul 2024

- Worked on six conversion tools in Practice Onboarding, using C#, .NET, React and TypeScript.
- Designed RESTful APIs and developed serverless solutions with AWS (DynamoDB, EC2, SQS, Lambda, S3).
- Buddied a graduate engineer, providing mentorship and guidance while with our team.
- Collaborated with stakeholders and cross-functional teams to resolve incidents and deliver customer-focused solutions.
- Won Xero's hackathon by adding an export feature to the Chart of Accounts library product - which we won!

Graduate Software Engineer
Xero

Auckland, New Zealand
Feb 2022 - Feb 2023

- Adapted quickly to diverse teams and tech stacks, contributing to various projects across front-end and back-end development while embracing different workflows and collaboration styles.
- Delivered full-stack features using C#, .NET, React, and TypeScript.
- Applied clean code, TDD, and Agile practices through pair programming and code reviews.
- Deepened knowledge of C# and testing tools (Jest, Cypress).

Software Engineer Intern
Xero

Auckland, New Zealand
Nov 2021 - Feb 2022

- Developed features using C#, MySQL, and AWS (DynamoDB, EC2, SQS, Lambda).
- Gained exposure to Docker, Kubernetes, and agile tooling (Jira, Confluence, Miro).
- Strengthened Git/GitHub skills and participated in a company-wide hackathon.

Bioinformatics Research Assistant
Landcare Research | University of Auckland

Auckland, New Zealand
Jul 2020 - Mar 2021

Combined knowledge and skills in biochemistry, bioinformatics, and self-taught programming to assist PhD students with their research across three separate projects.
- **Project 1:** Used Python for Metagenomic genome assembly to improve Aquiluna quality.
- **Project 2:** Molecular dynamic simulations of antimicrobial peptides using GROMACS software.
- **Project 3:** Mitochondrial genome assembly of stick insects (FASTQC and SPAdes).

PROJECTS

Ongoing

2025

2023

2022

2021

Personal Website
React, CSS (MUI), HTML
May 2021 - Ongoing

Full Stack Notes App
React, Java, Spring Boot
July 2025 - Ongoing

Employee REST API
Java, Spring Boot
June 2025

TicTacToe
C#
May 2025

To-do App
React
April 2025

Weather Info App
Java, Spring Boot, System Design
March 2025

Rock, Paper, Scissors
JavaScript
October 2023

Console RPG
C#
October 2022

Kalah / Mancala
Java
September 2021

Bulls & Cows
Java
April 2021

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

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.