

COLTON RANDALL

SOFTWARE ENGINEER

CONTACT



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Auckland, New Zealand

SKILLS

Languages &

Frameworks:

- C# & .NET
- React
- TypeScript

Cloud & Infrastructure:

- AWS (EC2, S3)
- Microservices Architecture (with API development)

Databases:

- NoSQL (DynamoDB)
- SQL (MySQL)

CI/CD & Automation:

- TeamCity
- Spinnaker
- Docker
- Kotlin (Pipeline Scripting)

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** 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.

A passionate and innovative Software Engineer with an interest in solving complex technical challenges through creative and efficient solutions, who strives to learn and grow at every opportunity, especially when trying something new. I thrive in collaborative environments, blending technical expertise, critical thinking, with a deep understanding and empathy for customer needs to deliver impactful results.

WORK EXPERIENCE

Intermediate Software Engineer

Xero

Auckland
Jul 2024 - Present

- Further honing skills in previous roles at Xero (C# / .NET).
- Unit and integration testing using Jest, Playwright and Cypress.
- Acquired three new conversion tools products, and have been modernising their codebases, adding tests, increasing modularity and improving general code efficiently throughout the applications.

Associate Engineer

Xero

Auckland
Feb 2023 - Jul 2024

- Permanently placed in a full-stack team working on three products within the Practice Onboarding space.
- Good exposure to C#, Typescript, React, AWS and Infrastructure as code (Terraform).
- Gained experience communicating with stakeholders and liaising with external teams.
- Experience being on-call, handling incidents and alerts both during and outside work hours.

Graduate Engineer

Xero

Auckland
Feb 2022 - Feb 2023

- Rotated through four teams at Xero working on varying products, acquiring a broad array of knowledge, skills and working styles between teams.
- Refined C# skills from internship.
- Exposure to React & Typescript and the basics of testing in Jest/Cypress.

Software Engineer Intern

Xero

Auckland
Nov 2021 - Feb 2022

- Applied knowledge gained during my postgraduate IT studies in a practical, commercial setting.
- Learned the basics of C#, Docker, Kubernetes, AWS (DynamoDB, EC2, SQS, Lambdas), MySQL.
- Experience in software tools such as Miro, Jira, Confluence, SQL Server etc.
- Honed skills in version control systems (Git & GitHub) from previously acquired certifications.
- Participated in Xero's hackathon with my internship cohort.

Bioinformatics & Metagenomics Research Assistant

University of Auckland | Landcare Research

Auckland
Jul 2020 - Mar 2021

Helped three PhD students with their research projects using knowledge in Biochemistry and self-taught programming.

- Auckland University
 - **Project 1:** Used Python for Metagenomics and genome assembly/recovery to improve Aquiluna quality.
 - **Project 2:** Performing molecular dynamic simulations of antimicrobial peptides using GROMACS software.
- Landcare Research (Manaaki Whenua)
 - **Project 3:** Mitochondrial genome assembly and comparative genomics of stick insects, using FASTQC and SPAdes assembly scaffolds.

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

Programming Fundamentals in Python 3

Coursera

Nov 2020

GitHub Ultimate: Master Git and GitHub

Udemy

Sep 2020

HTML, SQL & Javascript Fundamentals
(Separate certifications)

SoloLearn

May 2020

VOLUNTEER EXPERIENCE

Volunteer Teacher

Elite Visionary High School

Kibera Slums - Nairobi, Kenya

Jun 2016 - Jul 2016

Designed and presented Math and lessons to students at Elite Visionary High School.

Health Administrative Assistant

Kibera Community Health Centre

Kibera Slums - Nairobi, Kenya

Jun 2016 - Jul 2016

Helped sick patients gain access to medicine and treatment.

Volunteer Tutor / Caregiver

Kibera Community Health Centre

Kigali, Rwanda

Mar 2013 - Apr 2013

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