


# Colton Randall

Master of IT specialising in Software Development and Health Informatics


Passionate and friendly AWS-certified IT student with experience in bioinformatics and an interest for technology. My curiosity, creativity and experience in varying industries has allowed me to develop an interdisciplinary set of technical and personal skills that would benefit a software role. I have a positive and dedicated attitude to work while taking the initiative to continuous self-learning. I enjoy working as part of a team and value diversity, integrity and accountability.

coltondominicrandall@gmail.com 

+64212517276 

Auckland, New Zealand 

coltonrandall.github.io/ 

linkedin.com/in/coltonrandall 

github.com/ColtonRandall 

## TECHNICAL SKILLS

<b>Programming</b>	Java, Python, Bash / command line proficiency.	<b>Certified AWS Cloud Practitioner</b>	- Cloud concepts, services, security, architecture, pricing and support.
<b>Web Development</b>	JavaScript / AJAX, HTML, CSS, Node.js, SQL / Database management, Git and GitHub.	<b>AWS Solutions Architecting</b>	* Certification In progress *

## EDUCATION

### Master of Information Technology (MInfoTech) University of Auckland

07/2021 - Present

- Cloud Computing Architecture in AWS.
- Creating Maintainable Software in Java.
- Healthcare Decision Support Systems (Health Informatics).
- System Dynamics and Complex Modelling.

### Postgraduate Certificate in IT (PGCertInfoTech) University of Auckland

03/2021 - 06/2021

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

### BSc in Biochemistry University of Otago

02/2015 - 12/2018

## PERSONAL PROJECTS

#### Personal Website Portfolio (03/2021 - Present)

- Building my first website portfolio applying knowledge acquired throughout my postgraduate studies. Continually being updated.

#### Kalah (Mancala) Board Game - Evaluating Comprehensibility (07/2021 - Present)

- Using OOP techniques in Java to implement best practices in software development, building upon each iteration of this project to improve overall comprehensibility.

#### EzyVet Hackathon Project - Local Vet Locator (<https://bit.ly/vetTinder>) (05/2021 - 05/2021)

- Developed a vet-locating app prototype using React Frontend with Material UI components. Additional features: Kanban to track progress, CSS styling, Dynamic data fetching, Responsive web design, Google Maps API, AWS hosted.

#### Bulls and Cows Game (03/2021 - 04/2021)

- Used Object Oriented Java programming techniques to develop a fully functioning game. Other skills used: Abstraction, File I/O, UML diagrams.

#### Pokemon Website (03/2021 - 04/2021)

- Used HTML, CSS and JavaScript programming techniques to develop a functioning and interactive webpage.

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## PERSONAL PROJECTS

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### Magic 8 Ball - Python (10/2020 - 10/2020)

- My first personal project. Used self-taught python programming skills to develop an interactive magic-8-ball application.

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## CERTIFICATES

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AWS Certified Cloud Practitioner (09/2021 - Present)

Practice Java by Building Projects - Udemy (01/2021 - 01/2021)

Java Fundamentals - CodeCademy (11/2020 - 12/2020)

Programming Fundamentals (Python 3) - Coursera (10/2020 - 11/2020)

GitHub Ultimate: Master Git and GitHub - Beginner to Expert - Udemy (09/2020 - 09/2020)

Python 3 - SoloLearn (08/2019 - 12/2020)

HTML, SQL and JavaScript Fundamentals - SoloLearn (04/2020 - 05/2020)

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## WORK EXPERIENCE

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### Bioinformatics Research Assistant

University of Auckland

07/2020 - 03/2021

Auckland, New Zealand

- Project 1: Metagenomics and genome assembly/recovery to improve Aquiluna quality.
- Project 2: Performing molecular dynamic simulations of antimicrobial peptides.

References: Provided on request

### Metagenomics Research Assistant (Volunteer)

Landcare Research (Manaakai Whenua)

08/2020 - 03/2021

Auckland

- Mitochondrial genome assembly and comparative genomics of stick insects
- FASTQC and SPAdes assembly scaffolds.

References: Provided on request

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## VOLUNTEER EXPERIENCE

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### Volunteer Teacher

Elite Visionary High School

06/2016 - 07/2016

Kibera slum (Nairobi), Kenya

- Designed and presented maths and physics lessons to students.

### Volunteer Tutor / Caregiver

Home of Hope

03/2013 - 04/2013

Kigali, Rwanda

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

### Health Administrative Assistant

Kibera Community Health Centre

06/2016 - 07/2016

Kibera Slum (Nairobi), Kenya

- Helped sick patients gain access to medicine and treatment.