Colton Randall

Master of IT specialising in Software Development and Health Informatics

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Passionate and friendly software development 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.

TECHNICAL SKILLS

Programming	Java, Python, Bash / command line proficiency.
Web Development	JavaScript / AJAX, HTML, CSS, Node.js, SQL / Database management, Git and GitHub.
Cloud Computing	AWS Cloud Practitioner [certification in progress] - Achieved AWS Academy Graduate badge (31/08).

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.

PERSONAL PROJECTS

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.

CERTIFICATES

* AWS Certified Cloud Practitioner [In Progress] * (07/2021 - 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)

WORK EXPERIENCE

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**

VOLUNTEER EXPERIENCE

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.