Colton Randall

Postgraduate IT / Programming Student

I am a personable, driven and detail-oriented biochemistry graduate with experience in bioinformatic data analysis. My passion for learning has enabled me to develop a multifaceted skill-set, including recently starting a postgraduate degree in practical programming to enable me to work at the intersection of healthcare and technology.

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○ github.com/ColtonRandall

EDUCATION

Postgraduate Certificate in Information Technology
University of Auckland

03/2021 – Present

Courses
- Programming for Industry and Web Technologies

Bachelor of Science in Biochemistry
University of Otago

02/2015 – 12/2018   *Dunedin, New Zealand*

Courses
- Advanced Molecular Biology and Bioinformatics

WORK EXPERIENCE

Bioinformatics Research Assistant
University of Auckland

07/2020 – Present   *Auckland, New Zealand*

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

*References: Kim Handley (Project 1) kim.handley@auckland.ac.nz –
Jane Allison (Project 2) j.allison@auckland.ac.nz*

Bioinformatics Research Assistant
Manaaki Whenua – Landcare Research

07/2020 – Present   *Auckland, New Zealand*

Achievements/Tasks
- Reconstructing the evolutionary history of the New Zealand stick insect 'Acanthoxyla' using genomics.
- Genome assembly.

References: Thomas Buckley – BuckleyT@landcareresearch.co.nz

Biochemistry Tutor / Demonstrator
University of Otago

07/2018 – 11/2018   *Dunedin, New Zealand*

Achievements/Tasks
- Assisted students during practical laboratory sessions.
- Worked collaboratively to demonstrate and explain biochemical experiments and concepts

References: Kaye Wilson – kaye.wilson@otago.ac.nz.

PERSONAL CHARACTER REFERENCE

Sebastian Dunn, Auckland University Colleague

References: sjadunn@gmail.com

Additional character reference available on request.

TECHNICAL SKILLS

Programming
Java, Python 3, SQL, HTML, JavaScript, CSS, JSON.

Unix
Bash scripting and terminal/command line proficiency.

Research and Data Analysis
Critical thinking and computational analysis of data and literature. Experience in bioinformatics.

SOFT SKILLS

Communication   Teamwork   Adaptability
Problem-solving   Leadership   Organisation   Initiative
Strong Work Ethic

VOLUNTEER EXPERIENCE

Volunteer Teacher
Elite Visionary High School

06/2016 – 07/2016   *Nairobi, Kenya*

Tasks/Achievements
- Successfully designed and presented Math and Physics lessons to a class of 40+ students.

Health Administrative Assistant
Kibera Community Health Centre

06/2016 – 07/2016   *Nairobi, Kenya*

Tasks/Achievements
- Helped sick patients gain access to medicine and treatment.
- Aided nurses and doctors in recording important data.

CERTIFICATES

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

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

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

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

PERSONAL PROJECTS

Personal Website Portfolio (03/2021 – Present)
- Currently applying knowledge acquired in my postgraduate studies to progressively build my first website that will also act as my portfolio.