

# HAMISH BULTITUDE

Brisbane QLD · h.bultitude@uq.net.au · 0432 832 796 · <http://github.com/m-ish>

## EDUCATION

---

### University of Queensland

Bachelor of Biomedical Science & Bachelor of Computer Science *GPA: 6.75*

Brisbane, QLD

Jan 2018 - Nov 2021

## WORK EXPERIENCE

---

### Canva

*Software Engineering Internship 2021*

Sydney, NSW

Dec 2020 - Feb 2021

- App Store Team - Created an extension to the Canva editor which enabled a scalable and efficient Depth Of Field / Portrait Mode Effect using Machine Learning, removing the need for camera hardware.

### Google

*Developer Student Club Lead - University of Queensland*

Brisbane, QLD

Jun 2020 - Feb 2021

- Organised events for students to further their learning outside of University hours
- Conducted an introduction to the UNIX paradigm and UNIX-like system CLI.
- Conducted an introduction to the Golang (GO) programming language

### University of Queensland

*Student Research Program*

Brisbane, QLD

Jun 2020 - Dec 2020

- Constructed a Craniofacial Superimposition device, controlled over Ethernet between a RPI3 and UNIX machine. Interface conducted via command line or graphical interface modes.

### Queensland Institute of Medical Research Berghofer

*Research Scholar*

Brisbane, QLD

Nov 2019 - Feb 2020

- Research into Colorectal Cancer & Liver Metastasis through development of analytic programs
- Development of MultiQC RNASeqQC Analysis Module (Python, C)
- Construction of a Cluster Computer Pipeline program for increases in in-house bioinformatic analytic efficiency (Python, Bash)

### Queensland Institute of Medical Research Berghofer

*Winter Research Internship 2019*

Brisbane, QLD

Jun 2019 - Jul 2019

- Bioinformatics analysis of structural variant breakpoints in fragile sites across different cancer types
- Development of ParseDCC (closed source) program for use in analytical investigation into breast, prostate, testicular cancer and mesothelioma

### University of Queensland

*UQ Welcome Volunteering*

Brisbane, QLD

Jan 2020 - Present

- Conducted programs to welcome students to the University of Queensland
- HASS Welcome Function organiser
- UQ Touring & Mentoring for International Students

## SKILLS

---

Programming Concepts: C, Java, Python, UNIX & SH, Git, Network Programming, AWS, LUA, SQL, GO  
Mentoring: Student Mentor for Women in STEM and Computer Science  
Scientific Writing: An articulate grasp on writing with an interest in scientific papers

## PROJECTS

---

**CompareTheBrew** *Python, Bash, ChromeWebDriver, JavaScript* <http://comparethebrew.me>  
Website, Crawler & Pipeline to collate prices of alcoholic beverages to discover the most efficient drinks. Website scraping coordinated via Python on an AWS Lightsail instance, and frontend has a unique design hosted via Flask. An API also has been set up for easy querying of the database (JSON output) so IOS & Android apps offload calculations & maintain up-to-date data.

**MusicVisualiser (closed source)** *Python, C#, Bash*

A program to collect data from Spotify's API for use in analysis of the evolution of music from the 60s to now. Investigations include song length, song tempo, lyrics content and lyrical compression over time.

**MultiQC RNaseQC Module** *Python, C*

<https://github.com/m-ish/MultiQC>

Visualisation of RNaseQC data in Bioinformatics

**ParseDCC (closed source)** *Python, Bash*

Program for visualisation and analysis of DCC data files in a Bioinformatics setting

AWARDS

---

**Dean's Commendation**

University of Queensland

Awarded for a semester GPA of higher than 6.75

Aug 2018, Dec 2018, Aug 2019, Dec 2019

**Ryan Federal Member's Young Leaders Award**

Federal Member for Ryan

"Recognises a stand-out young person who is shaping the future direction of our industry" Nov 2017

**OP 1, ATAR > 99.00**

Dec 2017