Honours year Software Engineering Student interested in Machine Learning, Algorithms and user facing products.

TECHNICAL SKILLS

Competent: Python (most proficient), Java, JavaScript. Conversational: SQL, C, C++, TypeScript, Swift, Bash, HTML, MIPS, Perl

EDUCATION	
Monash University, Clayton 2015 - Nov 2018	 Bachelor of Software Engineering (honours) High Distinction average (85.0 WAM, 3.69/4 GPA). Honours research areas include information retrieval, machine learning, natural language processing. 99 for FIT3080 Intelligent Systems (Artificial Intelligence/Machine Learning). 99 for FIT3077 Software Engineering Architecture & Design.
Monash University, Clayton Feb 2018 - current	 Teaching Associate First year Algorithm fundamentals in Python (FIT1045) Second year Object Oriented Design & Implementation (FIT2099) Involves running labs, tutorials, consultations and marking assignments/exams.
Google, Sydney Nov 2017 – Feb 2018	 Software Engineering Intern Team: Google Maps – Location Sharing Project: Implementing a new feature on Android Maps Added two features to the Location Sharing Person Card on Google Maps Android, launching later this year. Propagated user device data through Google's Maps backends. Cached and rendered data on the Location Sharing Person Card. Worked collaboratively with UX designers, writers, product managers and other SWEs. Technologies: Java (Guice, Dagger2, Android), protobuffers, RPCs.
Monash University, Clayton Aug 2017 - current	 Software Developer Backend developer building REST APIs. Added an abstraction layer implementing basic CRUD functionality increasing use of OO and developer efficiency in Java SpringBoot. Contribute to course planning and career pathway web applications.
Accenture, Melbourne April 2017 – Nov 2017	 Technical Analyst Built a cloud data aggregator using Python, JQuery, AWS S3 and Spulnk. Built and architected an automated scheduled reporting pipeline using headless chrome, Python, JQuery and Splunk. Mentored the Accenture boot camp (1 week hackathon) in charge of 6 students.
Google, Sydney Dec 2016 – Feb 2017	 Software Engineering Intern Team: Network Edge SRE (Site Reliability Engineering) Project: Analysis of BMP routes Worked on a project visualizing public ISP routing data (RADb) validated against Google's internal network (BMP BGP feeds). Built a parser and querier from scratch.
Monash University, Faculty of IT Jan 2016 – May 2016	 Summer Research Student Supervisors: Assoc. Prof. Alan Dorin (Monash), Assoc. Prof. Adrian Dyer (RMIT) Project: A World Without Bees - Simulating important agriculture insect pollinators Developed software in Python for: Capturing videos and analysis of bees to extract features. Classification of pollinator species based on features, distinguished two species of bees with 77% accuracy.

VOLUNTARY WORK

) A V I D I F I

WIRED, Monash July 2017 – Current IT Society at Monash University.

Robogals, Monash Chapter September 2015 – June 2017

Global student run organisation that aims to increase the percentage of females in Engineering/Stem fields.

Monash University

Dec 2015 – Aug 2016

General Representative Committee Member

 Help organise academic events such as Tech Talks, industry night, coding interview panels and social events such as trivia nights.

Schools Manager (2016/17), Volunteer (2015)

- Liaise with schools and other institutions to organise and lead robotics workshops for primary and high school students.
- Promote gender diversity within engineering/STEM fields.
- Lead and instructed robotics workshops at primary and high schools with a focus on females.

Faculty of IT Peer Mentor (2016)

- Grouped with first year students to aid their transition from high school university and help build a strong vibrant student community.
- Arranged meet ups during semester and made sure students had access to resources & assist mentees with university life.

HONOURS & AWARDS

Academic

- Highest grade in my cohort for the following units:
 - o 99 FIT3077 Software Engineering Architecture & Design, 2017 semester 1.
 - o 99 FIT3080 Intelligent Systems (AI/ML), 2016 semester 2.
 - o 91 FIT2001 Systems Development, 2015 semester 2
 - o 88 FIT1010 Introduction to Software Engineering, 2015 semester 2
 - Summer Research Scholarship from Monash University, Faculty of IT, Clayton Campus.
- Cliff Bellamy award (highest achieving 3rd year undergraduate).

Sporting

- 2 consecutive gold medals Victorian State Sprint Swimming championships 2009, 2010.
- 3 consecutive gold medals School State Swimming championships 2009, 2010, 2011 (set a new state record in 2009).
- Ranked 1st in Victoria & 7th in Australia for 50m Backstroke 2009.
- 2010 Victorian State team for the School Swimming National Championships, Brisbane 2010, placed 3rd.

Programming Competitions

- Placed 3rd in VCPC (Victorian Collegiate Programming Competition) 2017.
- Placed 13th ICPC (International Collegiate Programming Competition) Divisionals 2017.
- 864/6458 HackerRank World CodeSprint 5 2016.

Hackathons

- Facebook Melbourne Hackathon 2018: 1st Place
 - Real time collaborative trip planning platform using Facebook, Google, Yelp and Zomato APIs. Won us first place and a trip to San Francisco to compete in the global finals.
- Unihack Melbourne 2017: 2nd Place
 - Used machine learning (image recognition) to determine the number of people in a venue. We applied this to two uses cases (train carriage & study spaces) building separate frontends for both.
- Spotless Hack 2016: Runners up prize
 - A real-time analytics platform allowing companies to efficiently empty bins when near capacity. Solution included an Android app, web app, IOT ultrasonic sensors (Raspberry Pi + Python).

Projects

- GeckoDownloadManager (Open Source, 500 users) <u>https://geckodm.github.io/</u>
 - A Google Chrome Extension designed to help students download multiple lectures at once from the 2017 release of Echo360 for Monash University.
 - GitHub Trending Repository Viewer (Android App) https://github.com/darvid7/ForkMe-Mobile
 - o Created as part of a university project, still a work in progress.

REFERENCES

Available upon request.