

Education

The University of Western Australia, Perth

B.Sc. Engineering Science (Software) and Computer Science

B.Sc. Honours in Software Engineering and Computer Science

Feb. 2015 to June 2018

GPA: 6.76/7.0 WAM: 82.0%

Aug. 2018 to June 2019

GPA: 7.0/7.0 WAM: 89.0%

Experience

Accenture at BHP – Software Engineer (Casual – Full-time) (03/18 – Pres.)

Full-stack developer on a high priority Django web-app for improving maintenance that supplies endpoints to a mobile app in the field. Responsibilities include task estimation, development of features, bug fixes, minimising database response times, and improving CI/CD pipelines. (Python, Django, JavaScript, React)

UWA Aerospace – Co-Manager & Software Engineer (04/18 – Pres.)

Founded a university team to compete in high-powered rocketry competitions and encourage secondary students to pursue STEM-related careers via workshops. Key responsibilities are acquiring funding, project management and building the hardware and software for our flight computer. (Arduino, C++)

BHP – *Technology Intern* (11/17 – 02/18)

Implemented auto-generated Grafana dashboards to monitor AWS-hosted production web apps, aiming to reduce downtime by alerting admins of faults and high loads. (Python, Grafana, AWS)

Bloom – *Head of IT* (Volunteer) (07/17 – 11/19)

Responsible for maintaining AP's, networked devices, and creating a productive workspace for young entrepreneurs by displaying quotes, upcoming events and members profiles in the co-working space.

Projects

Moss-side Whist – Researched and implemented an AI agent finishing 1st in a cohort-wide Whist competition. The agent used an Information Set Monte Carlo Tree Search algorithm to make strategic and optimal decisions. (Java)

Bitcoin – Developed a simplified version of the Bitcoin protocol allowing for the secure transfer of a virtual currency between users connected over an encrypted network, which rewards miners. (Java)

Guild Volunteering – Created an online approval service for UWA's Volunteering Department to help manage student's volunteered hours at Not for Profit organisations and integrate with UWA's transcript system. (Django, Python)

Skills

Languages (Proficient/Preferred): Python and Java

(Experienced): C and Matlab

(Familiar): C++, R, and JavaScript

Libraries: OpenMP, and OpenMPI

Web: Django, React, Bootstrap, HTML, and CSS

General: Git, Heroku, SQL, and AWS

Electronics: Raspberry Pi, Arduino, Micro-Controllers, and Soldering

Activities & Interests

Perth Fishackathon – Winner (02/18) - Competed in a team of 5 and prototyped a Django web app to inform fishermen of the laws based on their location, and time of the year, winning the Perth competition. (Django, Google Maps, and React)

Perth Unearthed Hackathon – Top 14 Team (04/18)

Western Australia Capture the Flag – 10th Place (12/17)

Competed in a pair against experienced members of the cyber-security community, to solve a series of challenges which covered a range of common techniques, exploits, and tools.

National Youth Week Hackathon – Participant (04/17)

Interests: AI, Electronics, Rocketry, Hockey, Music, and Teaching