

Robert A. Koch

SOFTWARE ENGINEER · ELECTRICAL ENGINEER

Melbourne, Australia

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"Motivated and curious, I strive to achieve my goals and pursue anything I find interesting. I enjoy all things electrical and mechanical."

Education

Monash University

Melbourne, Australia

BACHELOR OF SCIENCE, MAJORING IN COMPUTATIONAL SCIENCE AND APPLIED MATHEMATICS

Mar. 2014 - PRESENT

- Gained an understanding and proficiency of modern software engineering practices and tools such as **agile** development, **git**, and **cloud services**.
- Collaborated with members of industry and academia to create simulations and models for **financial**, and **medical** real world cases.

BACHELOR OF ENGINEERING, MAJORING IN ELECTRICAL AND COMPUTER SYSTEMS

Mar. 2014 - PRESENT

- Worked with senior staff within the university to create advanced robotics and machine learning tools.

Experience

Localz

Melbourne, Australia

SOFTWARE ENGINEER

Nov. 2017 - PRESENT

- Developed and maintained projects relating to realtime logistics and product delivery using modern software development techniques and tools.
- Innovated on modern technology stacks including **React Native** for **Android** and **iOS** development; **Angular**, and **React** for web development; and **NodeJS** for server development.
- Exposed to technologies such as **Kong**, **Amazon Web Services**, and **Papertrails**.

Monash University

Clayton, Australia

SOFTWARE ENGINEER

Apr. 2017 - Nov. 2017

- Worked in a small student run team to develop software to be used by staff and students for pre-enrollment and timetabling.
- Used enterprise grade technologies such as **Java Spring** and **Splunk** to create products for over 70,000 staff and students.

Atlassian

Sydney, Australia

WORKPLACE TECHNOLOGY INTERN

Nov. 2016 - Feb. 2017

- Developed and maintained numerous internal applications based on several different technologies including **Node**, **React**, **Angular**, **Spring**, **Flask**, and **Electron**.
- Worked in a small agile team tasked with developing and improving internal tools built around the Atlassian stack.

Target Australia

Mulgrave, Australia

WORKPLACE SUPERVISOR

Apr. 2009 - Apr. 2017

- Provided assistance and solutions to **hundreds** of customers a day.
- Worked with management and other staff to provide **professional services** to customers including **sales**, **grievances**, and **custom inquiries**.

Google

Clayton, Australia

STUDENT AMBASSADOR

Feb. 2015 - Mar. 2017

- Represented Google at Monash University by coordinating with multiple faculties to organise events aimed at **training**, **educating**, and **informing** students about the opportunities and products that Google provides.
- **Collaborated** with several other ambassadors from both Monash and other universities to create a **proactive** network of students in Melbourne.

Netwealth Investments & Superannuation

Melbourne, Australia

OPERATIONS INTERN

Jun. 2015 - Jul. 2016

- Worked full time during several university holidays to complete numerous projects for the **IT** and **Support** departments.
- Developed new tools running on **NodeJS**, to accelerate development goals.
- Implemented scripts to **automate** daily tasks allowing sales teams to focus on **generating** wealth.
- Created complex **Python** services to migrate issues from **Bugzilla** to **Jira**.

Extracurricular Activity

Wired Monash

Clayton, Australia

PRESIDENT, EDUCATION OFFICER

Sep. 2015 - Sep. 2017

- Successfully ran **headline** events that were widely popular - including **Unihack Mini**, **Careers Night**, and **Monash Ninja**.
- Worked along with other executive members to **plan** events that **increased** the club's active membership and student involvement.
- **Coordinated** with the Faculty of IT and Engineering to organise and run events for undergraduate students.

Unihack Australia

Melbourne, Australia

VICE PRESIDENT, CHAIR, SPONSORSHIP, TECHNOLOGY TEAM LEAD

Jan. 2016 - PRESENT

- **Represented** UniHack to businesses, organisations, and universities in Victoria and around Australia.
- **Managed** and organised committee meetings and maintain an overall schedule for the year leading up to UniHack.
- **Contributed** to the day-to-day running of the organisation.
- Lead the Technology and Development Team, which is responsible for all technical aspects of UniHack, including **software development, operations, support**, and **technical planning** of events.
- **Supervised** a team of students working on different projects all related for UniHack's continuous growth and development.
- Created connections to both **local** and **global companies** for sponsorship and mentorship.
- Attended meetings with **local** and **federal government** representatives to organise funding and appearances.

IT Peer Mentor Program

Clayton, Australia

SUPER MENTOR

Jan. 2016 - Jul. 2017

- Super Mentor for the IT faculties peer mentor program with **commitments** including providing guidance and mentorship to both mentors and mentees in the IT faculty
- Other responsibilities include **editing** the IT newsletter for the university and holding events for first year students.

Honors & Awards

DOMESTIC

2016	1st Place , Telstra University Challenge	Melbourne, Australia
2016	People's Choice , NASA Apace App Challenge	Melbourne, Australia
2015	Most Creative Idea , Unihack Melbourne	Melbourne, Australia
2015	Making Things Happen , Unihack Melbourne	Melbourne, Australia
2009	100% Happy Team Member Award , Target	Mulgrave, Australia

Program Committees

2018	Vice President & Technology Team Leader , Unihack Melbourne	Melbourne, Australia
2017	President , Wired Monash	Clayton, Australia
2017	Chair , Unihack Melbourne	Melbourne, Australia
2016	Education Officer , Wired Monash	Clayton, Australia
2016	Sponsorship Coordinator , Unihack Melbourne	Melbourne, Australia