Aaron Coox

🌐 www.aaroncoox.com   ✉ aaron.coox@outlook.com   LinkedIn

I'm an eager, motivated developer with a strong interest in both software and hardware engineering. I have experience with web-app development, embedded systems, cyber security, and networking in industry and academics. I'm always looking for ways to learn and improve.

Education & Achievements

Dual Bachelor of Computer & Electrical Engineering / Information Technology
University of Queensland, Feb 16 – Jun 21

GPA: 6.97 / 7

Valedictorian with First Class Honours

Rio Tinto Excellence Scholarship, 2019 & 2020

Colin Gordon James Scholarship, 2019 & 2020

KAIST Exchange Scholarship, 2019

New Colombo Plan Exchange Grant, 2019

GBST Engineering Scholarship, 2017

Agility Applications Scholarship, 2016

UQ ICT Academic Scholarship, 2016

The Dean's Commendation of Academic Excellence, 2016-2020

Skills & Languages

Programming

C (Multithread/process, server-side), JavaScript, Node.js, Vue.js, Python, C#, Java, HTML/CSS/SCSS, Firebase, AWS, Azure

Tools & Platforms

Git, Unity, Unix Shell, VS Code, Netlify

Languages

English (fluent), Dutch (fluent)

Extracurricular

UQ Women in Engineering Student Leader: (2020) Connecting with high school students and industry professionals to encourage female students to pursue engineering.

UQ Science and Engineering Challenge: (2018) Leading engineering activities for high school students to promote STEM fields.

Dalian Entrepreneurship Exchange (2017): Completed a course on innovation and entrepreneurship and prototyped a smart bus app at DNUI, China

My projects can be found at:
www.aaroncoox.com/#projects

Work Experience

Software Engineer Intern | Atlassian *Feb 18 – Nov 20*
- Worked on internal **cloud infrastructure** team as part of Atlassian's PaaS, focusing on serverless architecture.
- Developed synthetic testing for core tech stacks on **AWS**.
- Worked with **Kotlin/Java + Spring Boot, Node.js**

Academic Demonstrator | UQ *Feb 18 – Nov 20*
- Assessed and taught classes of up to 90 students in core engineering subjects.
- Taught **embedded C** and **Linux C**, including networking and multi-threaded development.
- Also taught **web-app programming** and best-practice website **UX design.**

Robotics Engineer Intern | Infosys *India, Jul 19 – Aug 19*
- Co-designed and developed a prototype for a cooperative path-finding approach for low-cost robots in unknown environments.
- Made use of **embedded systems**, **computer vision**, rapid prototyping with **Python**, networking protocols.

IOT Summer Research Project | UQ *Dec 18 – Feb 19*
- Designed and developed an **IOT** reminding device to assist dementia patients.
- Used **Amazon AWS, S3** to create a cloud-hosted infrastructure with **Alexa integration.**

Cyber Security Intern | Cympire *Israel, Nov 18 – Dec 18*
- Developed a fully automated Windows Kerberos vulnerability attack in **C.**
- Created, managed, and **automated Azure networking** infrastructure through PowerShell.

Front-end Developer Intern | GBST *Apr 18 – Feb 19*
- Developed an advanced financial calculators & graphs, using **Vue.js** and **D3.js.**
- Automated financial advice for international banking customers through online tools.

Software Engineer Intern | Agility Applications *Jul 16 – Apr 18*
- Intern developer focusing on server-side, for investment banking software.
- Designed and created a web-app unit testing suite using **Selenium** and **Jenkins.**
- Generated financial reports from complex **SQL queries** and large data sets.