


# Aaron Coox

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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: 6.94 / 7, (Top 1-3% of students)**

Rio Tinto Excellence Scholarship, 2019

Colin James Electrical Eng. Scholarship, 2019

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, 2016-2019

## 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

Dutch (fluent), English (fluent)

## Community

*UQ Women in Engineering Student Leader:*  
connecting with high school students and  
industry professionals to encourage female  
students to pursue engineering.

*UQ Science and Engineering Challenge:* leading  
engineering activities for high school students  
to promote STEM fields.

**My projects can be found at:**

[www.aaroncoox.com/#projects](http://www.aaroncoox.com/#projects)

## Work Experience

### Academic Demonstrator | UQ, Feb 18 - Current

- 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.

### IT Entrepreneurship Exchange | DNUI, China, Jun 17 – Jul 17

- Granted a scholarship** to complete an intensive course at Dalian Neusoft university, China.
- Learned and applied **innovation** and **entrepreneurship** skills in IT, business, and marketing.
- Designed, built, and marketed a prototype app targeted at smart school bus routing.

### 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.