

# Aaron Jauregui

E-mail: [aaron.u.jauregui@gmail.com](mailto:aaron.u.jauregui@gmail.com) LinkedIn: [Aaron Jauregui](#) Website: [aaronjau.com](http://aaronjau.com)

## WORK EXPERIENCE

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### Countersight

*Software Engineer/Security Consultant*

**Apr. 2020 - Present**

*Canberra, AUS*

- Security research and embedded development projects in the IOT space.
  - › Found novel vulnerabilities and created exploits in firmware, hardware and wireless protocols.
  - › Delivered embedded software on pre-existing and bespoke hardware in Linux and RTOS environments.
  - › Direct engagement and communication with clients; technical report and proposal writing.
- Led software development projects in Golang and Python.
  - › Designed and implemented concurrent systems and bespoke backend tooling. Performed continuous integration and maintenance. Automated and optimized build pipelines causing a large reduction in developer down-time.
  - › Team leadership, coordination, and support of junior staff in an Agile environment.
- Created and managed CI/CD and DevOps infrastructure with Ansible and Terraform for complex ephemeral multi-cloud (AWS, Azure, on-prem) networks.

### The Australian National University

*Research Assistant*

**Jul. 2021 - Aug. 2022**

*Canberra, AUS*

- Engaged in cyber security research in the field of Bluetooth communications and Apple's Find My network.
- Provided support for coordination, project management, and practical methods for honours students' embedded and Bluetooth security projects.

### The Australian National University

*Academic Tutor*

**Feb. 2020 - Nov. 2020**

*Canberra, AUS*

- Tutor for undergraduate computer execution and introductory cyber security courses. Ensured comprehensive learning experience by leading online forum discussions, engaged in weekly student workshops and assessing student assignments.

## LANGUAGES

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- **English:** Native, **Spanish:** Native, **Japanese:** N4

## RESEARCH PROJECTS

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### Honours Thesis

*Bluetooth Low Energy Hijacking in Contact Tracing Apps*

**2020 - 2021**

*The Australian National University*

- Examined security and privacy implications of Bluetooth-based COVID-19 contact tracing apps
- Developed a novel attack chain affecting fully updated contact tracing applications allowing attackers to hijack a BLE connection and silently pair with the victim, leading to surveillance and further exploit opportunities.
- Cooperated with international organization The Herald Project to report and mitigate the attack chain.

## EDUCATION

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### Bachelor of Advanced Computing (Honours)

*The Australian National University*

**2018-2022**

*Canberra, AUS*

- Graduated with Upper-Second Class honours.
- Majored in Cyber Security.
- Double Specialization in Systems & Architecture and Intelligent Systems.

## AWARDS

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### Northrop Grumman Cyber Security Scholarship

*The Australian National University School of Computing*

**2021**

*Canberra, AUS*

- Selected as one of 3 recipients for academic excellence in cyber security. Awarded \$7000 stipend per semester.

## **ANU Drawing Prize Finalist**

*The Australian National University School of Arts*

**2022**

*Canberra, AUS*

### **SKILLS**

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- **Technical:** Go, Ansible/Terraform, Reverse engineering (Ghidra, etc.), C, Docker, Embedded development frameworks (OpenWRT, Zephyr, FreeRTOS), Python, Bash, Git, LaTeX.

### **PERSONAL HOBBIES**

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- Self-Hosting/Homelab, minimalist software, home automation, Linux, DIY hardware, coffee, film photography.