Adam Tanana

Tel: +61 450 568 581

E-mail: adam@tanana.io GitHub: github.com/adamtanana Website: http://tanana.io/

Education

UNSW Sydney, Australia

Bachelor of Computer Science w/ Distinction *Feb 2017 – Nov 2019*

Noteworthy Courses:

- COMP3121 Algorithms and Programming Techniques
- COMP6841 Extended Security Engineering
- COMP6447 System and Software Security Assessment (Received 100 in course)

Work Experience

Google – Senior Security Engineer (Tech Lead) *Dec 2019 - Current*

- Detection & Response for Insider Threats. Key focus on detecting, responding to and preventing Access Abuse to consumer user data.
- Led a multi-year program of work to migrate and re-design core detection logic onto a low-latency streaming detection platform.
    - Resulted in an measurable increase in fidelity of detections (measuring True Positives vs False Positives).
    - This involved alignment with key stakeholders, strategic partners and Cross-organizational teams.
- Collaborated with cross-organizational teams to enhance Google's threat detection capabilities, spearheading efforts to refine telemetry and improve Log Quality across the company.
- Played a pivotal role as Tech Lead for a small team of Engineers, guiding design principles and detection architecture for the wider detection org.

UNSW Australia – Lecturer *Mar 2019 - Current*

Casual Tutor (TA) *Feb 2018 – Feb 2019*

- Tutored Introduction to Programming (COMP1511), Computer Systems Fundamentals (COMP1521)
- Helped students to solve course related problems, marking labs, assignments and exams.
- Lecturer for System and Software Security Assessment (COMP6447) for over 150 students, teaching topics such as Reverse Engineering, Shellcode writing, Basic and intermediate Buffer overflow exploitation techniques and modern exploitation techniques (ROP and Heap exploitation)

Jane Street Capital - Software Engineer Intern (Hong Kong) *Nov 2018 – Feb 2019*

- Worked on internal tooling and compilers team and designed a high throughput system for realtime parsing of large messages with minimal allocations.
- On a separate project, redesigned and reimplemented common browser capabilities in OCaml, integrating unit-testing, type safety and memory safety into the architecture.

Personal Projects

- FreeBSD Rootkit and Rootkit Detector
- Modular Malware Framework & Malware generation framework
- https://tanana.io/ Challenge Writeups and Blogs

Technical Skills

- Proficient: C, Java, Golang, Python, x86 Assembly, SQL
- Comfortable: C++, Bash, JavaScript, Splunk, ELK, OCaml

Academic Achievement

- Commonwealth Bank Cyber Award 2019
- Cyber Challenge Australia (CySCA) 5th place 2018
- UNSW Engineering Dean’s Honours List 2018 and 2019