Joshua Koike

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Experience

Security Consultant, Deja vu Security
September 2022 - Present

Conducted security assessments of products for major tech companies, conducted internal research and lead development of internal hardware training processes and standards. Focuses in:

- Embedded Hardware Security
- Web Application Security
- Secure Design and Architecture Review

Security Engineer, AWS Lambda
July 2020 - September 2021

Contributed security domain expertise, drafted security-related customer messaging and managed organization-wide security campaigns.

Embedded Security Engineer, Amazon Prime Air
Aug 2019 - July 2020

Managed security assessments for hardware and firmware components at Amazon Prime Air.

Security Consultant, Deja vu Security
Jan 2019-Aug 2019

Conducted security assessments of products for major tech companies, conducted internal research and lead development of internal hardware training processes and standards. Organized and managed bi-weekly hardware research and training sessions.
Focuses in:

- Embedded Hardware Security
- Serverless Application Technologies
- Single Page Web Application Security

Associate Security Consultant, Deja vu Security
2017-2018

Conducted security assessments of products for major tech companies.
Focuses in:

- Single Page Web Application Security
- REST API Security

Intern, Cigital
Summer, 2014

Assisted in security assessments and developed internal tooling.
Focuses in:

- Web application test automation
- Mobile Security (Android/iOS)

Skills

- Embedded Security Assessment
    - Bus protocol analysis (I2C, SPI, LPC, etc)
    - ARM assembly and CPU configuration (Cortex M/A)
    - Trusted Enclave Architectures
        - ARM TrustZone
        - Intel SGX
- Mobile Security Assessment
    - Dynamic analysis (Frida)
        - iOS
        - Android
    - Disassembly/Reverse Engineering
        - Android

- Programming
  - Python, Java, C, Rust, Kotlin, Assembly (AArch64, AArch32, x86)
- Operating System Internals
  - Linux (Debian based), Android, ChromeOS, iOS