

# JONATHAN DONAS

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## EXPERIENCE

### Amazon AWS Cryptography - Code Signing

SDE 2  
July 2019 – Present

- Built Windows, Android, Apple, Lambda, and Container code signing on the AWS Signer service
- Designed and built 100k+ TPS global signing/revocation service for mobile device app updates
- Designed and built HSM-based certificate storage/renewal system used for signing within Amazon
- Optimized AWS Signer's compute resources to save \$1.2 million in expenses per year
- Defined tenets for structuring, naming, and managing code signing PKIs within AWS
- Led 3 to 5 engineers over multiple projects. Mentored engineers and interns across Amazon

### Apple Apple Pay Security

Software Eng Intern  
May 2018 – Aug 2018

- Joined development of the iOS system daemon used in the Apple Card credit application process
- Built a Swift iOS application for internal end-to-end testing of the Apple Card signup workflow
- Implemented cryptographic communication protocols

### Uber Threat Operations

Software Eng Intern  
May 2017 – Aug 2017

- Implemented monitoring to expand the scope of internal abuse detection by 45%
- Refined detection signatures to reduce inbound false-positive alerts by 28%
- Reduced security triage work by 34 minutes/day using Python automation
- Performed secure code review and standardization for backend Python codebase

### Difenda Cyber Intelligence & Digital Forensics

Security Eng Intern  
May 2016 – Aug 2016

- Wrote a Python web crawler to index the dark web for potentially-leaked company data
- Implemented a scalable distributed port scanner with AWS EC2
- Built a web-interface that performed location, spam blacklist, virus database, and registrar look-ups
- Researched, implemented, and tested honeypot clients for use in a global honeypot network

### iTel Networks DevOps

DevOps Intern  
Jan 2015 – Aug 2015

- Built a remote management tool with Python that automated setup of Cisco network devices
- Wrote full-stack web development documentation to standardize internal training

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## EDUCATION

Univ. of Waterloo Bachelor of Computer Science with Business Option

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## SKILLS

**Security** Applied Cryptography | Code Signing | Public Key Infrastructure | Penetration Testing  
**Programming** Java | Python | iOS - Swift & Obj-C | Infrastructure as Code  
**Systems** AWS - Compute, Storage, Networking, & Serverless | API Design | Scalable & Available Systems

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## CERTIFICATIONS

**OSCP** Offensive Security Certified Professional  
**CCNA CO & RS** Cisco Certified Network Associate: Cyber Ops, Routing & Switching

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**PROJECTS** Visit [www.jondonas.com](http://www.jondonas.com)