

# 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 HSM-based certificate storage/renewal system used for signing within Amazon
- Designed and built highly scalable global signing/revocation system for mobile device app updates
- Optimized AWS Signer's compute resources to save \$1.2 million in expenses per year
- Defined tenets for structuring, naming, and managing all 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

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

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## CERTIFICATIONS

<b>OSCP</b>	Offensive Security Certified Professional
<b>CCNA CO &amp; RS</b>	Cisco Certified Network Associate: Cyber Ops, Routing & Switching

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