

JONATHAN DONAS

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EXPERIENCE

Amazon
Sr. Software Engineer
Oct 2023 – Present
Software Engineer
July 2019 – Sep 2023

Overall

- API Bar Raiser - wrote AWS-wide API design standards, reviewed and approved dozens of new service launches, and advised on hundreds of new AWS API features
- Interviewed, mentored, and helped promote dozens of engineers within my team and org

AWS KMS

- Engineering lead for the KMS control plane team - key lifecycle APIs used by 100k+ customers
- Designed and led development of Import Key Rotation - KMS' #1 customer-requested feature
- Collaborated with S3, EC2, and other foundational services to implement internal security features

AWS Signer

- Engineering lead for industry-first code signing, certificate management, and revocation features
- Designed and led development of:
 - OCI container image signing and revocation - Signer's most-used public feature
 - SSM command and document signing - a significant cross-org collaboration
 - KMS-backed certificate service that manages signing keys for Amazon's commercial mobile apps
 - 100k+ TPS signing and revocation service for globally distributed mobile app updates
- Optimized AWS Signer's compute resources to save \$1.2 million/year in expenses

Apple
Software Eng Intern
May 2018 – Aug 2018

Apple Pay Security

- Developed 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

Uber
Software Eng Intern
May 2017 – Aug 2017

Threat Operations

- Implemented monitoring that expanded the scope of internal abuse detection by 45%
- Refined detection signatures that reduced inbound false-positive alerts by 28%

Difenda
Security Eng Intern
May 2016 – Aug 2016

Cyber Intelligence & Digital Forensics

- Wrote a Python web crawler to index the dark web for potentially-leaked customer data
- Implemented a scalable distributed port scanner with AWS EC2

EDUCATION

Univ. of Waterloo Bachelor of Computer Science with Business Option

TECHNICAL INTERESTS

Security Applied Cryptography - Encryption, Code Signing, Public Key Infrastructure | Penetration Testing
Systems API Design | Highly Scalable/Available Systems | AWS - Compute, Storage, Networking, Serverless
Programming Object-Oriented Programming - Java & Python | Full software development lifecycle

CERTIFICATIONS

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

PROJECTS

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