JONATHAN DONAS

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EXPERIENCE

Amazon [↑] AWS Key Management Service (KMS)

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

- Engineering lead for the KMS control plane API team 5m+ TPS key encryption and signing APIs used by 100k+ customers with \$400m+ annual revenue
- API Bar Raiser reviewed and approved multiple new AWS service launches, influenced service launch strategies at the director-level, and advised on hundreds of new AWS API features
- Designed and led development of multi-region key rotation for customer-imported encryption key material - KMS' #1 customer-requested feature for multiple years
- Collaborated with S3, EC2, EBS, and other foundational services to implement internal API authorization and IAM security controls

AWS Signer

- Engineering lead for industry-first code signing, certificate management, and revocation features
- Designed and led development of:
- o 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 [↑] Apple Pay Security

Software Eng Intern

- Developed the iOS system daemon used in the Apple Card credit application process
- May 2018 Aug 2018 | Built a Swift iOS application for internal end-to-end testing of the Apple Card signup workflow

Uber [↑] Threat Operations

Software Eng Intern

- Implemented internal systems monitoring that doubled the scope of abuse detection
- May 2017 Aug 2017 Refined security incident detection signatures that reduced inbound false-positives by half

Difenda ? Cyber Intelligence & Digital Forensics

Security Eng Intern

- Wrote a Python web crawler to index the dark web for potentially-leaked customer data
- May 2016 Aug 2016 | 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