

Brian Jopling | DevOps, Cloud Security

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Drexel University
B.S. Computer Science, Computer Security

Sept 2015 — June 2020
magna cum laude, Dean's List

Skills & Abilities

Programming Languages: Python, Java, Bash, C, HTML, CSS, JavaScript, SQL.

Tools & Software: Docker, Git, Nmap, Wireshark, Hashicorp Vault, Elasticsearch/Kibana, DataDog.

Amazon Web Services: CloudFormation, VPC, IAM, CloudWatch, EC2, ECS (Fargate), CloudTrail, Lambda, DynamoDB, S3, Route 53, API Gateway, SageMaker, Elastic Beanstalk, Cognito, CodeBuild, CodePipeline.

Operating Systems: GNU/Linux (CentOS, Ubuntu, Fedora, Kali), Windows (XP, 7, 8), Mac (macOS).

Experience

Security Engineer

April 2018 — Present

Comcast Corporation

- Performed infrastructure automation by crafting CloudFormation templates and Bash/Python/Nodejs scripts for serverless API (Lambda, DynamoDB, API Gateway) ingested by millions of Xfinity customers.
- Integrated CICD for Lambda-backed API & ECS (Fargate) using CodeBuild & CodePipeline, turning a two-person, three-hour testing & deployment process into a one-person, five-minute automated process.
- Orchestrated migration of on-prem services to AWS using Docker, RDS, ECS, ALB, & CloudFormation.
- Created DataDog dashboards allowing team to monitor availability, reliability, operations, and KPIs.
- Programmed suite of AWS Logging, Monitoring, & Incident Response tools deployed across Comcast that have identified risks such as public S3 buckets, overly permissive security groups, & unencrypted RDS.

Information Security Engineer

April 2017 — March 2018

University of Pennsylvania School of Arts & Sciences

- Developed NECTOR, an open source SIEM that provides analysis of security alerts produced by Nessus.
- Discovered, escalated, & patched XSS vulnerability affecting majority of existing SAS websites.
- Conducted code reviews of Drupal Core and Contributed modules hosted on Pantheon PaaS.
- Engaged in incident response team by analyzing memory dumps of infected computers using Volatility.

Web Developer

May 2014 — September 2016

Fit Results Personal Training & Cycle Studio

- Designed and developed company website using HTML, CSS (Bootstrap), and JavaScript (jQuery).
- Migrated existing source code from local storage to GitHub repository to promote version control.
- Integrated CICD into the workplace using git-ftp, pipelining commits to host's FTP server.

Activities & Accomplishments

- Founded DC215, the DEF CON group for Philadelphia's InfoSec community with 600 followers.
- Discovered & responsibly disclosed overly permissive XML RPC API on ecobee.com, which would have allowed an attacker to enumerate through thousands of credentials in a single POST request.
- Inducted into Upsilon Pi Epsilon (ACM, IEEE), the Honor Society for Computing & Information Disciplines.
- Won first place in Entrepreneurial category of 2019-20 Drexel Senior Project Showcase for Study Buddy, a serverless RESTful chatbot (AWS Lambda, API Gateway) powered by ML (SageMaker) that answers questions based on OCR (Textract, Apache Tika) of textbook photos.