

# Brian Jopling

brian.r.jopling@drexel.edu • (267) 644-5009  
3514 Lancaster Ave, Apt 116, Philadelphia, PA  
brianjopling.com • github.com/polyatomicbrian

---

## Education

Drexel University  
Bachelor of Science in Computer Science  
Computer Security

Philadelphia, PA  
Anticipated Graduation: June 2020  
Cumulative GPA: 3.64, Dean's List

## Skills

**Programming Languages:** Python, Bash, Java, C++, C#, HTML, CSS, JavaScript, PHP, SQL, Visual Basic.

**Frameworks:** Django, Spring, jQuery, Bootstrap, Drupal.

**Tools & Software:** Git, Vi/Vim, Nmap, Wireshark, BurpSuite, Zed Attack Proxy (ZAP), Metasploit, Volatility, Hashcat, Nessus, Elasticsearch, Kibana, VirtualBox, VMware, Eclipse, Visual Studio Code, PyCharm, IntelliJ, PhpStorm.

**Amazon Web Services:** VPC, EC2, IAM, CloudWatch, CloudTrail, Lambda, CloudFormation, DynamoDB, S3, Route 53, API Gateway, Kinesis (Firehose, Data Analytics), SageMaker, Elastic Beanstalk, Cognito.

**Operating Systems:** GNU/Linux (Fedora, Kali Linux, Ubuntu), Windows (XP, 7, 8, 10), Mac (macOS).

## Experience

### Comcast Corporation

Security Engineer

Philadelphia, PA  
April 2018 to Present

- Provided cloud governance for microservices and infrastructure of Xfinity Authenticator (MFA) mobile application.
- Performed infrastructure automation by crafting CloudFormation templates, custom Lambda functions, and shell scripts.
- Designed anomaly-detection engine, utilizing machine learning through AWS SageMaker, to identify evolving threats.
- Automated and maintained serverless infrastructure for risk-calculating API that detects unauthorized account access.
- Implemented SSO into internal PKI application using OpenID Connect to permit access to only Comcast employees.
- Architected extraction, transformation, and storage of Big Data using AWS Data Pipeline, Lambda, and DynamoDB.

### University of Pennsylvania School of Arts & Sciences

Information Security Engineer

Philadelphia, PA  
April 2017 to March 2018

- Developed NECTOR, an open source Security Information & Event Manager that provides analysis of security alerts.
- Performed frequent security audits on websites and their servers to protect university networks and their users.
- Discovered and patched XSS vulnerability affecting majority of existing SAS websites.
- Conducted code reviews on Drupal Core and Contributed modules to ensure SAS websites were secured.
- Assisted with vulnerability management by reviewing logs produced by Nessus and OSSEC.
- Engaged in incident response team by analyzing memory dumps of infected computers using Volatility.

### Fit Results Personal Training & Cycle Studio

Technical Officer

Skippack, PA  
May 2014 to August 2015, June to September 2016

- Designed and developed company website using HTML, CSS, JavaScript, and the Bootstrap framework.
- Updated company website on weekly basis to ensure content was accurate.
- Managed electronic devices (iPads, iPhones, and desktops) by monitoring usages and maintaining software updates.
- Collaborated with individual staff members in creating their online employee biographies.

### The Cave of Trials (Windows, Mac, & Android Game)

Project Manager and Lead Programmer

Drexel University  
January to June 2016

- Instructed and cooperated with four team members to develop 2D top-down puzzle game.
- Programmed in C# using Unity Game Engine to export cross-compatible game.
- Managed collaborative Git repository on Bitbucket, providing source control for changing code.
- Published and maintained Android application on Google Play Store.

## Activities

Co-Founder, DEF CON Philly (dc215.org), Present  
Volunteer, WOPR Summit (woprsummit.org), Present  
Participant, BSidesPhilly, BSidesNYC, 2018

Drupal Security Tool Developer, Drop-Fuzz, 2017  
Mobile App Developer, Coin Grabber, 2015-16  
Member, Robotics Club, Methacton High School, 2011-15