**EDUCATION**

**M.S. Computer Engineering** Boston University | **2017**

**Course Work:** Applied Symmetric ­­Cryptography, Intro to Cryptography, Cyber Security,

Network Security, Data Science, Embedded Systems, Cloud Computing,

Negotiations, Inventions & Patents…

**B.S. Computer Engineering & Minor in Business Administration** Boston University | **2016**

**WORK EXPERIENCE**

**Founder & CEO September 2016 - Present**

**Cipher Zero Inc.**

* Founded an S-Corp in the state of New York to handle small consulting jobs on the side for clients.
* Managing multiple clients with contracts and delivering on time solutions.
* Designing products, branding & implementing them for clients.
* Managing and automating client’s social media and online marketing plans.

**Software & Security Engineering Intern March 2016 – October 2016**

**Lexumo** | Cambridge, MA  *Phabricator, JIRA, Slack, Git, Python, Docker, & Strace*

* Joined within a month of founding, witnessing management and growth of startup from day one.
* Maintained and improved existing client code built on python.
* Ensured compatibility of client code with the majority of Unix based systems using Docker.

**Software Engineering Intern May 2015 – January 2016**

**Carbonite** | Boston, MA *JIRA, Jenkins, Github, Node.js, Ruby, C#, PowerShell & AWS (EC2, VPC, S3, RDS)*

* Worked on Cloud Infrastructure Team & Quality Assurance Teams
* Researched limitations of Amazon Web Services
* Communicated with AWS support team for new solutions
* Researched methods for recovering Windows onto a physical machine from a cloud instance.
* Worked with Jenkins to create automated tests in AWS.
* Assisted in design and implementation of a RESTFUL API for use by a new Android application
* Mentored new Co-Ops & worked with remote employees in Ukraine.

**SKILLS**

**Fluent Spoken Languages**- English, Greek & Spanish

**Programming Languages** *-* C, C#, C++, Java, Ruby, Python, HTML, CSS, JavaScript, JQuery, Node.js

**Technical Skills** *-* Cloud Computing, Cryptography, Cryptanalysis, Block Ciphers, Hashing, AES Encryption, XSS, CSRF, Buffer Overflows, Wi-Fi Security, Mac Spoofing, Reverse Engineering, Static Analysis, Fuzz Testing, Side Channel Attacks, SQL Injections, Amazon Web Services (EC2, RDS, VPC, Key Management, S3, Dynamo DB), Unix, Android Development, NoSQL, SQL, Mongo DB, PostgreSQL, Virtualization, Docker, Unix Kernel Dev., Microprocessors, Mean Stack, Excel, Microsoft office.

**PROJECTS**

**Apekit: Android Vulnerability Scanning September 2015 – December 2015**

**Cyber Security** | EC521 *Androgaurd, SQL, Android, Python & Linux*

* Python Pipeline that reverses engineer’s Android APK’s to source code, & statically analyzes for vulnerabilities.
* Managed team of 7 Students to evenly distribute work and maintained Unix server for the team.
* Analyzed over 1000 Android applications
* Discovered API keys including Amazon Web Service keys along with other vulnerabilities.

**Q: Web Browser Vulnerability Scanning March 2017 – Present**

**Applied Cryptography** | CS591 *Python, JavaScript, Mongo DB, Node.js, Google Chrome Extension*

* Studies show that 88% of Crypto used by android apps is done “wrong.” Stem from developers blindly copying code from the internet.
* Q is a Node.js REST API which executes a static analysis with python scripts on a website with coding tutorial, searching for vulnerabilities in Crypto or Code (Think Stack Overflow).
* Stores scans in Mongo DB database for next users access.
* Web browser extension, contacts server, and highlights found vulnerabilities on the web page.

**AWS EC2 Spot Instance Price Analysis September 2016 – December 2016**

**CS505** | Data Science with Python *Data Science, Market Analysis, Python, Pandas, Github, AWS EC2*

* AWS EC2 has a marketplace where people bid against each other for extra resources, and for a data science project I lead a team to analyze this market.
* Used Python along with Pandas and other packages to scrape data and analyze the time series.
* Found correlations that allow users to save money by moving VMs’ to different locations.
* Through analysis found that the average price made the spot instance market worth the investment in the majority of cases.

**Sundial: Solar Monitoring Platform September 2015 – May 2016**

**Senior Design** | EC451 & 452*Scrum, Android, Java, Python, Django, REST, PostgreSQL*

* Sundial is a Hardware-to-Cloud solution for monitoring solar units’ power usage in rural Africa.
* Deployed for Oolu Solar in Senegal, Africa. A Startup that manages 200+ rural villages.
* Lead a team of six students in Architecting and Implementing our solution with scrum.
* Designed wireframes, and communicated with customers to create a product that fit their needs more than what they had simply requested.
* Lead the Implementation of the Android App.
* Assisted architecting PostgreSQL data model & Restful API routes.

**ReClo: Disaster Recovery in the Cloud January 2015 – May 2015**

**Cloud Computing** | EC500 *Scrum, AWS EC2, Dynamo DB, RDS, S3, Node.js, PowerShell, C# asp.net*

* Using Scrum lead a team of 5 students to create a solution for disaster recovery, restoring physical machines to Ec2 virtual machines
* Designed RESTFUL API and Cloud infrastructure
* Designed and Implemented C# windows client to be a user-friendly product.
* Presented & Demoed in Massachusetts Open Cloud Conference
* C# Windows Clients, Node.js backend working built into AWS.