*Konstantino*Sparakis

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EDUCATION

M.S. Computer Engineering 3.4 GPA   Boston University | **2017**

Relevant Course Work: Applied Symmetric Cryptography, Intro to Cryptography, Cyber Security, Network Security, Data Science.

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

WORK EXPERIENCE

Founder & CEO   **September 2016 - Present**

Cipher Zero Inc. | Queens, NY

- Custom cloud based software solutions for improved internal operations in small businesses.
- Bringing IT strategy and solutions to businesses struggling to keep up with modern technology.
- Blockchain & Cryptography consulting

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

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

- Improved client application by writing unit tests, talking to customers, and implementing new features.
- Ensured compatibility of application client-side code with the majority of Unix based systems using Docker with a CentOS5 image to ensure compilation with lowest Glib library possible.

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 and Quality Assurance teams
- Researched limitations of Amazon Web Services in order to build a quick backup to ec2 instance
- 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, which backs up mobile data to all free clouds (Dropbox, OneDrive, google drive…)
- Mentored new Co-Ops and worked with remote employees in Ukraine.

SKILLS

Fluent Spoken Languages - English, Greek, and Spanish

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

PROJECTS

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

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

- Using scrum lead a team of five 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, communicating to Node.js backend on EC2.
- Presented and Demoed at Massachusetts Open Cloud Conference.

Sundial: Solar Monitoring Platform   September 2015 – May 2016

Senior Design   *Scrum, Android, Java, Python, Django, REST, PostgreSQL*

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

Black Widow: Web Browser Crypto Vulnerability Scanning   March 2017 – Present

Applied Cryptography   *MongoDB, AWS Lambda, REST API, Crypto, Google Chrome, JavaScript*

- Designed and Implemented a Google Chrome extension that scans and highlights cryptographic vulnerabilities found on coding tutorial websites (Think Stack Overflow).
- "Server-less" Python API Backend, built using AWS lambda and API Gateway.
- Successfully Identified improper Java and Python Cryptography implementations, and built system modularly for scalability, adding new vulnerability scans easily.

AWS EC2 Spot Instance Price Analysis   September 2016 – December 2016

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 computing resources, I lead a team to analyze this market using data science techniques.
- Used Python, Pandas and other packages to scrape data from the web and analyze it.
- Found correlations that allow users to save money by moving VMs' to different locations.
- Through analysis, the average price made the spot instance market worth the investment in the majority of cases.

Apekit: Android Vulnerability Scanning   September 2015 – December 2015

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

- Python pipeline that reverse engineer's Android APK's to source code, and statically analyzes for vulnerabilities.
- Analyzed over 1000 Android applications
- Discovered API keys including Amazon Web Service keys along with other vulnerabilities.

SoundCloud Security Audit   May 2017

Network Security   *Data Science, Market Analysis, Python, Pandas, Github, AWS EC2*

- Performed passive security audit on Soundcloud.com, and found an attack vector
- Checked for proper use of Cryptography, SSL, and prevention against XSS and CSFR
- Sniffed web packets for inspection with Wireshark