Konstantino *Sparakis*

Computer Engineer

Available to Work: June, 2017
Address: 89 Linden St.
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⬙ EDUCATION ::

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

Course Work: Negotiations, Inventions & Patents, Cryptography, Cyber Security, Data Science, Applied Symmetric Cryptography, Network Security, Embedded Systems, Cloud Computing...

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 real clients with contracts and hard deadlines.
- Designing products, branding & implementing them for clients.
- Managing and automating client's social media and online marketing plans.

Software & Security Engineering Intern   **March 2016 – December 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 on majority of Unix based systems.

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

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

Design - Wireframes, Photography, & Adobe Photoshop

Technologies - Cloud Computing, Cryptography, Embedded Systems, Amazon Web Services (EC2, RDS, VPC, Key Management, S3, Dynamo DB), Unix, Android Development, NoSQL, SQL, Mongo DB, PostgreSQL, MySQL, Virtualization, Docker, Unix Kernel Dev., Microprocessors, Mean Stack.

✒ PROJECTS ::

Sundial: Solar Monitoring Platform
September 2016 - Present

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. Startup that manages 200+ rural villages and growing.
- 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.

Stutor
March 2016 – December 2016

Side Project   *Entrepreneurship, Product Design*

- Stutor is a product concept for a university student peer to peer tutoring app
- Students can sign up to tutor other students, or get tutoring from students who have already taken the same course, with even the same professor.
- Designed wireframes, android prototype, branding, and pitch deck.
- Made it to the semi finals of Boston University's Startup Pitch Competition
- Decided not to bring to market after carefully evaluating and researching the market segment.

Apekit: Android Vulnerability Scanning
May 2015 – January 2016

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 team.
- Analyzed over 1000 Android applications
- Discovered API keys including Amazon Web Service keys along with other vulnerabilities.

AWS EC2 Spot Instance Price Analysis
May 2015 – January 2016

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

- AWS EC2 has a market place 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 majority of cases.

ReClo: Disaster Recovery in the Cloud
March 2016 – December 2016

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.