# Konstantino Sparakis

(718) 508 2663

ksparakis@gmail.com

https://www.linkedin.com/in/sparakis

https://github.com/ksparakis/


## MS COMPUTER ENGINEER

## EDUCATION

### Boston University

*September 2016*

Bachelors, BS Computer Engineering

Minor, Business Administration

*Expected May 2017*

Masters, MS of Computer Engineering

## FLUENT SPOKEN LANGUAGES

English, Greek & Spanish

## AREAS OF INTEREST

Venture Capital, Entrepreneurship, Cloud Computing, Cyber Security, Block chain technology & Cryptography

## COMPUTER LANGUAGES

Asp .Net, Bash, C, C#, C++, CSS, Html, JQuery, Java, JavaScript, Node JS, Objective-C, Php, Python, Ruby, & SQL.

## TECHNICAL SKILLS

AWS, Computer Architecture, Digital Logic, Docker, Full Stack Dev., IOT, Kernel Dev., Microprocessors, Mobile Dev., Object Oriented Programing, REST API's, Scrum, Unix Terminal, Virtualization

## EXPERIENCE

### Founded Consulting Company

Cipher Zero Inc. | Astoria, NY

Sept. 2016 – present

Founded an S-Corp in the state of New York to handle small consulting jobs for clients.

- Helping designing Products, branding and implementing them.
- Managing multiple real clients with contracts and hard deadlines.
- Experience with forming a company.

### Software & Security Eng. Intern

Lexumo | Boston, MA

March 2016 – Dec 2016

Phabricator, JIRA, Slack, Gitlabs, Python, Docker, & Strace.

- Joined within a month of founding, witnessing management and growth of startup from day 1.
- Worked on maintaining and improving existing client code built on python.

### Software Engineering Intern

Carbonite | Boston, MA

May 2015 – Jan 2016

Pivotal, JIRA, Jenkins, Github, Node.js, Ruby, AWS, C#, & PowerShell

**Cloud Infrastructure Team**

- Mentored new interns and Co-ops
- Amazon Web Services
  - Finding limitations of AWS
  - Communicating with AWS support engineers for solutions.
  - Worked with EC2, S3, Lambda, Key Management, VPC, & RDS.
- Writing scripts for customer usage analytics
- Researching and testing methods of recovering a physical machine from a cloud back up.
- Created Microsoft PowerShell applets for multiple use cases.

**Quality and Assurance Team**

- Worked with Jenkins to create automated tests.
- Worked with remote employees in Ukraine

## TECHNICAL PROJECTS

### AWS Spot Instance Market Analysis

Fall 2016

Python, Pandas, Data Science

- AWS EC2 has a market place where people bid against each other for extra resources.
- Found that same instance type in different regions and different instance in same region are highly uncorrelated. Meaning you can save money by moving to different market.
- Through analysis found that average price made Spot instance market worth the investment in majority of cases.

### APEKIT: Android Vulnerability Analysis

Fall 2015

Python, AWS, APKTool, SQLight and Unix

- Python Pipeline that reverses engineer's Android APK's to source code, & statically analyzes for vulnerabilities.
- Analyzed over 1000 Android applications
- Discovered API keys including Amazon Web Service keys.

### Sundial: Solar Unit Monitoring

Fall 2015- May 2016

Scrum, Python, PostgreSql Django, Java & Android

- Deployed for Oolu Solar in Senegal, Africa. Startup that manages 200+ rural villages and growing.
- Hardware-to-Cloud solution for monitoring solar units power usage in rural Africa.
- Lead a team of 6 students in Architecting and Implementing our solution with scrum.
- Lead the Implementation of our Android App.
- Assisted architecture of PostgreSQL data model & Restful API routes

### ReClo: Cloud Disaster Recovery

Spring 2015

Scrum, AWS (EC2, S3), Node.js, C#, & REST API, MySql

- Using Scrum lead a team of 5 students to create a solution for disaster recovery, restoring physical machines to Ec2 virtual machines
- Presented & Demoed in **Massachusetts Open Cloud Conference**
- C# Windows Clients, Node.js backend working built into AWS.

### Ambios: Dynamic Ambient lighting for computer monitor

Spring 2015

C, Microprocessor, Hacking

- Used port sniffer to find Prismatik software protocol, which live captures color displayed on monitor and sends it via serial port to hardware.
- Using a TI MSP430 microprocessor programmed in C & custom circuit design attached to Led Strips, emulated a Prismatik compatible device to intercept color information and display it on LED strip.

### 24 Hands: Embedded Systems

Spring 2015

C, Digital Logic, Unix Kernel, IC2, & RF

- 7 Segment display created by moving a single clock hand into proper position.
- 24 Stepper motors controlled by custom logic circuit connected to a raspberry pi & Gumstix embedded processor.
- I2C communication between Gumstix and R-pi
- Ti watch with accelerometer and RF communication sends commands to display.

### Networking in the Physical World

Fall 2014

PHP, RF, Android, Embedded Systems, MySql

Collection of Internet of things Projects based off of Sun Systems Sun Spot microcontrollers.

- Report room temperature to cloud infrastructure and display live and historic data view via custom web interface.
- Using Radio Frequency Strength indicator for indoor localization with live web view
- Created a wall following algorithm for servos self-driving automated car.