

# JOSEPH KIM

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## EXPERIENCE

### MWR InfoSecurity, an F-Secure Company

*Summer Security Intern (June 2019 – August 2019)*

- Built an offensive security tool in C# that automatically searches for secrets pushed onto shared corporate services such as *Confluence*, *Slack*, and *Office 365*
- Conducted multiple mock-jobs requiring pentesting applications, writing reports, and in one instance, roleplaying a presentation for “the client”

### CTFd

*Contractor (January 2019 – February 2019)*

*Contractor (June 2019 – June 2019)*

- Built and documented 13 security challenges for national academic competition
- Created intentionally vulnerable programs for students to exploit
- Containerized and deployed security challenges using Docker

### NYC Cyber Command

*Engineering Intern (June 2018 – October 2018)*

- Created network diagrams and documentation for the engineering team’s project
- Identified bottleneck within HR’s hiring process and helped develop Python program automating pipeline
- Shadowed SIRT to see how security issues are prevented, monitored, and treated within a large technology-driven organization

### Intro to Computer Science

*Teaching Assistant (December 2017 – May 2018)*

- Helped design the course including its various lecture topics, homework assignments, projects
- Engaged with students to develop their understandings of significant concepts in programming and the computer science industry

## SKILLS

**Languages:** *Python, JavaScript, C#, MySQL, C, HTML, CSS, C++, Assembly*

**Tools & Technologies:** *ReactJS, Flask, Vagrant, Docker, Git, Unix, AWS*

## PROJECTS

### League of Data | November 2019

- Interfaced with Riot’s API to collect and analyze top *League of Legends* players’ matches to determine ideal team compositions using Flask and SQL
- Developed single-page application in ReactJS to interact with Python backend
- Uses: Python, SQL, ReactJS

### Indra | September 2019

- Developed React components and refactored existing frontend code for open-source web application that visualizes agent-based modeling
- Developed with emphasis on DevOps and Agile practices
- Uses: ReactJS

### Partial MNIST | December 2018

- Created a neural network designed to recognize images of handwritten digits
- Uses: Python

## EDUCATION

**New York University** | *Graduating May 2020*

**Tandon:** *Pursuing B.S. in Computer Science*

**CAS:** *Completed minor in Philosophy*

### OSIRIS Research Lab

*Member (March 2018 – Present)*

*Communications (May 2018 – January 2019)*

- Managed external communications with lab’s extensive network of industry professionals and company sponsors
- Organized events held by OSIRIS, such as our public weekly seminar series, and larger, cross-school events

**Relevant Coursework:** *Front End, Databases, DevOps, Data Science Projects, Artificial Intelligence, Network Security, Offensive Security, Data Analysis, Linear Algebra and Differential Equations*