Kenneth Lee

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Education

New York University | New York City, New York (9/2016 – 12/2019)
- **Major:** Computer Science, Bachelor of Science
- **Minor:** Mathematics
- **Cumulative GPA:** 3.44

Experience

Full Stack Intern at INFOLynx | Teaneck, New Jersey (5/2019 – Present)
- Implemented flexible JavaScript components to decrease the time taken to build web pages.
- Utilized Leaflet to create a map component that shows locations in real time.
- Deployed AWS Lambda functions, such as database lookups and location updates via text with Nexmo, MongoDB, and Mongoose. API requests were tested using Postmates.
- Redesigned the database with the Senior Developer, resulting in lowering Lambda runtimes by 30%.
- Set up a file upload feature by hooking up AWS Lambda and S3 to a JavaScript component.

Software Contractor at CTFd | New York City, New York (1/2019 – 2/2019)
- Turned common web and cryptography vulnerabilities into CTF challenges using small web applications and Linux servers.
- Delivered containerized CTF challenges to the Technology Student Association.
- Combined prior knowledge of web development with Docker to build light and portable web applications.

Application Development Intern at Draft.Fish | Campbell, California (6/2018 – 8/2018)
- Developed the MVP of an auto-scheduling to-do iOS application.
- Laid out and built the foundation of the application in Swift.
- Worked in a Scrum process to ensure efficient communication between engineers and customers.

Member of the OSIRIS Security Lab | New York City, New York (10/2018 – Present)
- Posted a write-up of an AES encryption challenge on the OSIRIS blog.
- Contribute to the NYUSEC team by playing in weekly CTF events.
- Learn about and exploit security vulnerabilities through OSIRIS seminars and Hack Nights.

Projects

Indra | Web Application
- An agent-based modeling system, written in Python, with a non-programming friendly GUI.
- Developing React components and cleaning up the existing code base using DevOps practices.

Resume Generator | Web Application
- Generates a resume given the user's information and selected template.
- Used React-Redux to build a single page web application.

Number Recognition | Python Script
- Neural network that can recognize digits 0 - 4 from the MNIST data set of handwritten numbers.
- Implemented back propagation with one hidden layer.

Secret Memo | Python Script
- Creates password protected text files that can only be accessed through the shell.
- Encrypted files and passwords with a modified Caesar cipher and sha512 hashing.

Technical Skills

Proficient in Python, C/C++, Java, JavaScript, jQuery, NodeJS, React, npm, JSON, Jest, HTML, CSS, Bootstrap, SASS, MongoDB, Mongoose, SQL, AWS Lambda, Git, Linux (Ubuntu), Docker, Postmates, Jira

Familiar with Ruby, C#, Redux, PHP, Flask, Nginx, DynamoDB, Swift, Android Studio