ALLEN LAO

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Education

New York University   **May 2018 (Anticipated Graduation Date)**

B.S. in Computer Engineering

Relevant Courses: Data Structures & Algorithms, Design & Analysis of Algorithms, Databases, Computer Architecture, Java and Web Design, Python, Digital Logic, VLSI, Introduction to C++

Technical Skills

Programming Languages:	Java, C++, Python, SQL
Scripting Languages:	PHP, JavaScript
Frameworks:	Node.js
Operating Systems:	Windows, iOS, Android
Web Development:	HTML, CSS, Bootstrap
Database Development:	MySQL, JDBC
Other Tools:	Arduino, Processing, Git, XML, FPGA, Xilinx ISE

Related Projects

Full Stack Meetup Web Application (PHP, MySQL, HTML, CSS)   **April 2017- May 2017**

- Developed a meetup web application using both front and back end technologies within a team environment
- Implemented security measures such as password hashing and language used to prevent SQL injections
- Connects to a MySQL Database and allows users to create, rate, and rsvp for meetups in the area

Multithreaded TCP Chat Program (Java)   **April 2017**

- Created a multithreaded TCP chat server and chat client allowing multiple users to communicate simultaneously
- Implemented a GUI using Java Swing components and programmed chat communication via sockets

InstaDoc (Java, XML, Google Maps API)   **February 2017**

- Created an Android application that aids users in life-threatening situations using Java and XML
- Built in Android Studio and utilizes location tracking via the Google Maps API

Polytechnic Playing Machine (FPGA, Xilinx ISE)   **September 2016 – December 2016**

- Developed a game on a FPGA board that allows for play between humans and against the machine itself
- Implemented the playing strategy of the machine using digital circuits within a small team environment

Search and Recovery Robot (Mindstorms, MS Project, MS Sketchup)   **September 2014 – December 2014**

- Designed an autonomous robot that traversed an obstacle course in order to pick up various nodes
- Managed a team using MS Project to meet benchmarks and also programmed the robot using LEGO Mindstorms
- Nominated for the Nick Russo Award for Outstanding General Engineering Design

Experience

Software Engineer Intern — Sencity Corp   **June 2017 – Present**

- Optimized the codebase for sensors engineering and interactive content programming in JavaScript and Node.js
- Developed core software in C and Java for use with microcontrollers, microwave and ultrasonic sensors, and LEDs
- Prototyped and tested products using Arduino and Processing

Operations Intern — NextGenVest   **August 2016 – February 2017**

- Managed all data entry regarding customers and compiled statistical reports on customer growth and retention rates
- Collaborated with school administrators across the U.S. to setup workshops and presentations
- Lead presentations on financial literacy in front of 20+ people at various high schools in New York City