ALLEN LAO

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Education

New York University   **2014-2018 (Anticipated Graduation Date)**

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

Technical Skills & Technologies

- **C++, Java, HTML, CSS, SQL, Python, LabView, FPGA, Android Studio, Xilinx, Microsoft Office**

Related Projects

InstaDoc   **February 2017 – Present**

- Developing an Android application that aids users in life-threatening situations using Java and XML from the ground up
- Built in Android Studio and utilizes location tracking with the Google Maps API and looking to integrate Text-to-Speech API for user accessibility

Polytechnic Playing Machine   **September 2017 – December 2017**

- 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

VertiLife – Vertical Livestock Farming   **January 2015 – May 2015**

- Developed a concept improving livestock farming by utilizing vertical expansion as opposed to current methods
- Interviewed farmers in the industry and created a proposal for a MVP using Prezi and present ideas to colleagues

Search and Recovery Robot   **September 2014 – Dec. 2014**

- Designed an autonomous robot that traversed an obstacle course and pick up nodes
- Utilized Microsoft SketchUp to design robot, built using LEGO Mindstorms, managed team with Microsoft Project
- Nominated for the Nick Russo Award for Outstanding General Engineering Design

Work Experience & Leadership

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

- Communicated with school administrators across the nation to setup workshops and presentations
- Improved the operational processes and strategies within the startup (marketing strategies and initiatives)
- Engaged in direct outreach (presentations) with students and parents both in-person and virtually

Volunteer – Habitat for Humanity   **September 2010 – May 2016**

- Contributed over 100 hours to building housing for people in need both in Alabama and New York
- Engaged in hands-on projects that involved planning, construction, and team work

Restaurant Assistant Manager – Chop Suey Inn   **September 2010 – July 2015**

- Lead a team of employees, worked with customers to ensure satisfaction, and fostered a working team environment
- Improved communication and time management skills immensely and dealt with stressful situations effectively