

ALBERT K. NGUYEN

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EXPERIENCE

Software Engineer Intern, **Sweep Energy (Startup)**

July 2019 - Current

- Rework web application using Angular, Express.js, Node.js
- Build dashboard to show real-time time series data on a graph
- Implement API callback functions to handle and process data from API gateway
- Design and develop desktop application using Electron and Node.js

PROJECTS

Autonomous Ball Collection Robot, **School Club Project**

Spring 2018

- Team engineering project to build an autonomous ping pong ball collection robot
- Collaborated and designed with a team of different engineering students
- Created the circuit to connect the sensors and motors to an Arduino microcontroller
- Programmed the infrared sensor and color sensor for position control and ball detection

Arduino Alarm Clock, **Personal Project**

Summer 2017

- Design project to build and code an alarm clock with circuits
- Taught myself how to use the Arduino microcontroller and language (C/C++)
- Engineered and refined a concise Arduino circuit through continuous debugging and testing
- Implemented core Arduino programming concepts to create a fully-functional alarm clock

SKILLS

- Programming Languages: C/C++, Java, Javascript, Python, Assembly
- Frameworks: Node.js, Express.js, Angular, React
- Technologies: Git/Github, Linux, REST, Web Sockets, AWS, HTML, CSS
- Understanding of computer networking fundamentals
- Understanding of embedded systems development
- Ability to work independently and collaborate in a team environment
- Passion and ability to learn new technologies quickly
- Enjoy learning, solving challenging problems, and making creations that incorporate my own design

RELEVANT COURSEWORK

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|---|------------------------------------|
| ▪ Data Structures | ▪ Operating Systems |
| ▪ Algorithm Design and Analysis | ▪ Computer Architecture |
| ▪ Computer Organization and Assembly Language | ▪ Software Engineering |
| ▪ Computer Networks | ▪ Intro to Artificial Intelligence |

EDUCATION

University of California, Merced, CA

Expected Graduation: June 2020

- B.S., Computer Science and Engineering

REFERENCES

Agustin Roldan, **Co-founder(Sweep Energy)**

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