

ALBERT K. NGUYEN

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EXPERIENCE

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

July 2019 - Current

- Design and develop front-end architecture and views for hybrid application
- Integrate front-end views with back-end system using API calls
- Design device dashboard to display real-time time series data onto a graph
- Implement API callback functions to handle and process data from API gateway
- Technologies used: Angular, Express.js, Node.js, Ionic, Electron, Postman, Docker

PROJECTS

Loan Application Web App, **Company Sponsored Capstone Project (Oportun, Inc.)**

Fall 2019

- Awarded Top Finisher at UC Merced's Mobile App Challenge
- Used AWS Textract to extract and display document information onto an Admin UI page
- Implemented and connected all API endpoints including document upload, text extraction, and search
- Technologies used: Angular, Java, Spring, AWS, Postman

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 and color sensor for position control and ball detection (C/C++)

SKILLS

- Programming Languages: C/C++, Java, Javascript, Typescript, Python, Assembly
- Frameworks: Node.js, Express.js, Angular, React, Spring
- Technologies: Git/Github, Linux, REST, AWS, Postman, HTML, CSS
- Understanding of computer networking fundamentals
- 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, **Project Manager (Sweep Energy)**

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