

# 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 display 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

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

Fall 2019

- Streamline loan application process with the use of Optical Character Recognition (OCR) technology
- Use AWS Rekognition and Textract to extract, verify, and flag documents into JSON schema
- Build an Admin UI page for displaying and searching through all JSON data
- Worked full-stack along with front-end and database engineers using Angular, Java, Spring, and AWS

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, 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

- |   |                                    |
|---|------------------------------------|
| ▪ 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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