ALAN CHEN

OBJECTIVE

I am seeking a full-time position that will allow me to learn more about the vast computer engineering field while making a difference in the world.

CONTACT

PHONE:
646-894-0553

Portfolio:
https:// achen173.github.io/

GitHub:
https://github.com/achen173/

Email:
alanchen@umass.edu

HOBBIES

FPV Drone Racing
Skateboarding
Fishing
Tennis

EDUCATION

University of Massachusetts Amherst
Bachelor of Science in Computer Engineering   GPA: 3.5
Expect Graduation Date: May 2021

SKILLS

Programming: Python, Java, JavaScript, React, C, Assembly,
Software: MATLAB, Linux, Atmel Studio, Web/App Development
Language: Chinese (Mandarin)
Others: Arduino, FPGA, Jetson Nano, Quartus, SPI, UART, Circuits

WORK EXPERIENCE

ECE 202 Computation Tools   Tutor
Sept 2019 – Dec 2019
- Used MATLAB, Excel, and Python to design/visualize systems
- Emphasis on teaching students to design applications efficiently, with well-structured code and checks

UnitedHealth Group   Software Engineering Internship
June 2019 – August 2019
- Utilized Graph Database, to build a dynamic website which provided unique insights about the huge amounts of data collected to **reduce call volumes and routing/waiting time**

UnitedHealth Group   Software Engineering Internship
June 2020 – August 2020
- Integrated Airship's push notification features and Apple HealthKit's data into an iOS app to **increase user engagement**

RESEARCH/PROJECTS

Election Security
Sept 2018 – May 2019
- Utilize Little-JIL, a software used to build process models, to map out the election procedures in Massachusetts
- Processing the model using Fault Tree Analysis to find possible problems in the election system and looking for ways to improve
- **Presented research to a class of 60 people**

Cache Optimization in Assembly
Nov 2019
- Wrote machine learning (linear regression) and matrix multiplication in MIPS assembly language
- Optimizing Cache Performance using a Cache Simulator

Object Detection from a Drone
July 2020
- Retrieved live feed from a drone to perform object detection using pre-trained neural networks
- Check here for pictures: https://github.com/achen173/DroneRx