

EDUCATION

University of Maryland, BS Computer Science, Class 2021

PROJECTS

Impos-Terp

- Developed an android social deduction mobile game based off of a game called Skyfall with two other students.
- https://github.com/JohnWLuo/cmsc436-group_project

English Practice App

- Developed a video chat app to help foreign speakers connect with native English speakers to improve linguistic skills.
- https://github.com/JohnWLuo/English_Practice

LaMiracle

- Created a software program to find lyrics for songs by using the artist's name and the track name.
- <https://github.com/JohnWLuo/LaMiracle>

Other

- Built my own Electric Skateboard
- Built my own personalized computer

EXPERIENCE

UNIVERSITY OF MARYLAND

June 2019 to Aug. 2019

Research Intern in the department of Electrical and Computer Engineering

- Programmed an iOS application to automatically crop facial images using advanced facial recognition
- Developed facial recognition software using Apple's Vision framework
- Setup a web server to transfer images between mobile app and server
- Using advanced algorithms, calculated a user's heart rate from still photos

UNIVERSITY OF MARYLAND

June 2019 to Aug. 2019

Teaching Assistant in the department of Electrical and Computer Engineering

- Served as a Matlab and Image Processing teaching assistant for international students.

UNIVERSITY OF MARYLAND

June 2016 to Aug. 2016

Research Intern in the department of Electrical and Computer Engineering

- Researched forensic analysis techniques to determine the location and time of recordings by analyzing electromagnetic interference in audio and video recordings.
- Built a circuit board to measure the electromagnetic light interferences of a power grid for forensic matching.
- Programmed Arduino microcontroller, which was used to collect data from light sensor circuits.
- Implemented a data compression algorithm to reduce the size of data to allow quick transfer of light sensor data

SKILLS

COURSES

- Programming Smartphones, Algorithms, Computer Network and Security, Programming Language Technologies and Paradigms Organization of Programming Languages, Discrete Structures, Introduction to Computer Systems, Object-Oriented Programming, Applied Probability and Statistics

SKILLS

- Proficient in Javascript, Java, Python, iOS and Android development
- Proficient with backend and frontend development
- Proficient with Arduino Microcontroller

ACTIVITIES

BITCAMP 2018 AND 2019 • Hackathon

- Attended the BitCamp 2018 hackathon and created LaMiracle with 3 other people.

MARCHING BAND AND FULL ORCHESTRA – 3 YEARS ADVENTURES CLUB - 4 YEARS

- Led a club to solve complex problems, such as brain teasers, using creative solutions.