

John Luo

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github.com/JohnWLuo

EDUCATION

The University of Maryland, College Park, Bachelors of Computer Science, August 2017 - August 2021

TECHNICAL PROFICIENCIES

Language Proficiencies: Javascript, Java, C, C#, C++, Python, iOS, Android, Firebase, REST API, MongoDB, Linux, SQL, Angular
Web Development Proficiencies: Backend, Frontend, and Full-Stack development
Other Proficiencies: Programmed an Arduino Microcontroller

EXPERIENCE

BISWAS INFORMATION TECH SOLUTIONS

Aug 2021 to Aug 2022

Software Engineer Full Time

- Lead the development of several Angular web pages for the front-end side of FDA's Product Classification website
- Collaborated with the back-end programmers to allow for the communication between the front and back ends
- Programmed Participated in Sprints and daily Scrums for code and product review
- Arranged meetings to discuss the web pages with the customers and testers to collect requirements and use-cases
- Used HTTP requests to retrieve and modify documents in the backend
- Learned to understand, use, and fix other coworker's codebase
- Ability to work and learn in a fast pace collaborative team environment

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 the advanced 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

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

PROGRAMMING PROJECTS

Your Life in Weeks - (ReactJS, NodeJS, ExpressJS, MongoDB, Heroku) - <https://week-calendar-front.herokuapp.com/>

- Created a full-stack application that shows a person's life segmented into weeks with a journal and list function.
- Designed a full-stack application after finding competitors did not have the features I was looking for.

Impos-Terp - (Android, Firebase) - https://github.com/JohnWLuo/cmsc436-group_project

- Developed an Android social mobile game using Firebase based on a game called Skyfall in a team.
- Created with the help of 2 other students, where I created goals and led communication with team members.

English Practice Mobile App - (Android, Twilio) - https://github.com/JohnWLuo/English_Practice

- Developed a video chat app to help foreign speakers practice English with native speakers using Twilio.
- Started during summer 2019 to learn about Android programming.

LaMiracle - (Java) - <https://github.com/JohnWLuo/LaMiracle>

- Created a Java software program to find lyrics for songs by using the artist's name and the track name.
- LaMiracle was created at a 2018 Hackathon with an impromptu group.

Other

- Built two personalized computers and an Electric Skateboard from scratch

COURSES

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