Owen Luo

24 Case St, Gaithersburg, MD 20878
luoowen.github.io | 301.979.8643 | oluo@terpmail.umd.edu

EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK

B.S. in Computer Science
Minor in Statistics
Expected May 2021 | College Park, MD
GPA: 3.76 / 4.0

LINKS

Github: **github.com/luoowen**
Gitlab: **git.dev.technetlabs.org/luoowen**
LinkedIn: **linkedin.com/in/luoowen**
Personal Website: **luoowen.github.io**

COURSEWORK

UNDERGRADUATE

Algorithms
Organization of Programming Languages
Discrete Structures
Computer Systems
Object-Oriented Programming
Linear Algebra
Multivariable Calculus
Applied Probability and Statistics

SKILLS

PROGRAMMING

Languages:
Java • C • Javascript • Python •
Ruby • C++ • MATLAB • HTML •
CSS • Assembly • Markdown
Frameworks:
React • React Native • Flask
Other:
MySQL • Firebase• MongoDB • REST •
Git

AWARDS

2019 Winner • EqualsEquals Capital One Best Financial Hack

2019 Winner • EqualsEquals Best Hack

2018 Runner Up • Bitcamp Decentralize Everything: Blockchain Challenge

2017 3nd place • Montgomery College Programming Competition

2017 1nd place • Lockheed Martin Code Quest Regionals, Novice Division

EXPERIENCE

MIND LAB | Full Stack Research Programmer

(Maryland Information and Network Dynamics)
Feb 2019 - Present | College Park, MD
- Utilized React Native to develop an IOS and Android compatible activity tracking mobile application capable of voice recording and picture taking
- Employed a RESTful API through Python Flask connecting to a MySQL database to send and store data used for research analysis
- Mobile Application Summer Team Head leading progress for three others

ACTIONET | Desktop Support Intern

July 2017 – Aug 2017 | Vienna, VA
- Assembled, disassembled, and imaged laptops for 40+ employees
- Assisted clientele with tech issues, ranging from password resets to setting up workspaces (laptops, printers, etc.)

PROJECTS

MACRO | github.com/luoowen/macro

September 2019 | JavaScript, React Native, Firebase, Google Cloud Vision API
An IOS and Android compatible mobile application which identifies food in pictures and displays its calories and macronutrients. Utilizes Google Cloud Vision API and queries through the USDA food composition database to obtain nutritional info.

SHARED PAPER | github.com/luoowen/shared-paper

April 2019 | JavaScript, React Native, MongoDB, Socket.IO, Node.js
An IOS mobile application which allows synchronous canvas collaboration. The application is able to store accounts, files, and marks in a database to allow devices to access data and sync.

UMCP TASA WEBSITE | umcptasa.org/

April 2019 - Present | HTML, CSS, JavaScript
Redesigned and maintain the University of Maryland College Park Taiwanese American Student Association website.

PAPERS

Exploring the entrainment of electrical brain activity through binaural beat simulation.

July 2019 - Present | Python, Project Jupyter
Determine whether binaural beats of a specific frequency will increase the relative power of the corresponding brain wave to the played frequency.

ACTIVITIES

TAIWANESE AMERICAN STUDENT ASSOCIATION | Webmaster

April 2019 – Present | College Park, MD
In charge of developing and maintaining the UMCP TASA website and mobile app

BOY SCOUTS OF AMERICA | Eagle Scout

Sept 2008 – April 2018 | Rockville, MD
Organized a donation drive (400+ houses) to obtain equipment (laptops, flags, etc.) for the Boys & Girls Club