

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 2022 | College Park, MD

GPA: 3.70 / 4.0

LINKS

Github: github.com/luoowen

LinkedIn: [linkedin.com/in/luoowen](https://www.linkedin.com/in/luoowen)

Personal Website: luoowen.github.io

COURSEWORK

UNDERGRADUATE

Algorithms

Design and Analysis of Algorithms

Advanced Data Structures

Database Design

Organization of Programming Languages

Discrete Structures

Computer Systems

Object-Oriented Programming

Linear Algebra

Multi-variable Calculus

Applied Probability and Statistics

SKILLS

PROGRAMMING

Languages:

Java • Javascript/Node • Typescript

Python • MATLAB • HTML • CSS

C • OCaml • SAS • Markdown

Frameworks:

React • React Native • Flask • Angular

Vue • Express

Other:

MySQL • PostgreSQL • MongoDB •

REST • Git • Minitab

AWARDS

2019 Winner • EqualsEquals Capital One
Best Financial Hack

2019 Winner • EqualsEquals Best Hack

2018 Runner Up • Bitcamp Decentralize
Everything: Blockchain Challenge

2017 3rd place • Montgomery College
Programming Competition

EXPERIENCE

CAPITAL ONE | SOFTWARE ENGINEERING INTERN

June 2020 – August 2020 | New York, NY

- Developed modern, interactive components with Angular, ngRx and AWS Lambdas, to allow contributions and distributions to IRAs for over 250,000 accounts (billions of transactions) in the effort to retire a legacy application
- Added 80% unit test code coverage to ensure code quality and reduce development time

Feb 2020 - May 2020 | College Park, MD

- Worked with Center for Machine Learning (C4ML), built a neuro-linguistic tool with React, spaCy, and Python Flask that displays part-of-speech tags, syntactic dependencies and named entity visualization on input text

TECHNICA | PLATFORM SOFTWARE ENGINEER

April 2020 – Present | College Park, MD

- Organizer in the 2020 Platform Tech Team (8 people) building the annual world's largest (~1000) all-women and non-binary hackathon: Technica
- Contribute to an open-source, online platform for hackathons to use, built with the COVID-19 pandemic in mind
- Deploy a Vue.js webapp on AWS S3, backed by a Serverless backend, utilizing AWS Lambda and DynamoDB

MIND LAB | SOFTWARE DEVELOPMENT INTERN

(Maryland Information and Network Dynamics)

Feb 2019 - May 2020 | College Park, MD

- Utilized and self-taught React Native to develop and document an IOS and Android compatible activity tracking mobile application capable of voice recording and pictures
- Employed a RESTful API through Python Flask connecting to a MySQL database to send and store data used for research analysis

PROJECTS

MACRO | GITHUB.COM/LUOOWEN/MACRO

JavaScript, React Native, Firebase, Google Cloud Vision API

An IOS and Android compatible mobile application that 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

JavaScript, React Native, MongoDB, Socket.IO, Node.js

An IOS mobile application allowing synchronous canvas collaboration. The application is able to store accounts, files, and marks to allow devices to access data and sync.

ACTIVITIES

TAIWANESE AMERICAN STUDENT ASSOCIATION | WEBMASTER

April 2019 – April 2020 | College Park, MD

Developed, redesigned, and maintained the UMCP TASA website

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