

Benjamin “Ben” Lin

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SKILLS

Computer: Java, Javascript, C, Python, Angular/AngularJS, Ruby, OCaml, Linux, Matlab, Typescript, HTML/CSS
Languages: English, Mandarin (Chinese) || U.S. Citizen and Taiwanese Dual Citizen

EDUCATION

UNIVERSITY OF MARYLAND

Bachelors of Science in Computer Science || Honors College

College Park, MD

Expected: Dec. 2021

GPA: 3.58

- Cybersecurity (ACES) Minor || General Business Minor
- QUEST (Quality Enhancement Systems and Teams) Honors Program

WORK EXPERIENCE

Google

Mountain View, CA

STEP Engineering Intern

May 2020 - Present

- (Intended) Full-Stack development of Web Application relating to Google One Cloud Storage.

The National Institutes of Health, *Utilities Engineering Branch*

Bethesda Main Campus, MD

Machine Learning Intern

May 2019 - Jan. 2020

- Created real-time and future prediction models using Machine Learning, Regression Learner, Optimization, and Curve-fitting toolboxes in Matlab for the NIH Central Utility Plant (CUP).
- Front-End Web Development: Used Angular TypeScript, HTML, and CSS to display CUP Data.

PROJECTS

Optimizing Food Bank Resources in DMV || Capital Area Food Bank, *Washington DC* Feb. - May 2020

- Analyzed Food Insecurity and Census data to create statistical models identifying areas of greatest opportunity.
- Mapped census tracts of significant areas of resource reallocation based on CAFB partner count in DC.

Cardiac Connection Mobile App || Hackathon: HackUMBC, *University of Maryland, BC* Sept. 2019

- Created Mobile App in Javascript and Cordova to be cross-platform compatible.
- App creates user profiles that can be swiped like/unlike on by other app users, and has chat functionality.
- Utilized HTTP requests to access JSON containing card profile information on Google Cloud Platform.
- Created FitBit App to connect with phone app, triggering the “like” input on phone at elevated heart rate.

Sunburn Sundial Android App || Hackathon: Bitcamp, *University of Maryland* April 2019

- Created an Android App to display data on the UV index of user location and resulting advisory actions.
- Utilized Google Map Services and Phone Permissions to locate user’s GPS Coordinates.
- App sends API key requests to openuv.io (Real-Time UV Index Forecast API) and extracts JSON responses.

Dynamic Web Page || National Institutes of Health, *Division of Technical Resources* July - Aug. 2019

- Created web pages to display gas nomination and usage for boiler plant operators using HTML/CSS.
- Pulled data from PI OSIsoft server using HTTP requests in Typescript.

Over-Sand Vehicle || ENES100 (Introduction to Engineering), *Lead Programmer* Feb. - May 2019

- Placed 2nd of 13 teams in competition to build/programming phase 1sq ft autonomous robot in Arduino.
- Robot also navigated to collect an acid pool sample, measured the acid pH, and neutralized the acid pool.

LEADERSHIP EXPERIENCE

University Senator, University of Maryland, *University Senate*

May 2020 - Present

- Elected as undergrad CMNS senator to advise the University President on campus policy matters imposed by laws/mandates from the University of Maryland System Board of Regents or Chancellor.
- Review reports and recommendations and represent the CMNS constituency with the Senate body.

Faculty Affairs Committee, University of Maryland, *Senate Standing Committees* Sept. 2019 - May 2020

- Selected as the undergrad representative to review policies pertaining to faculty members for amendment.
- Propose and create protections for faculty, related to employment, academic freedom, and prerequisites.

Student Advisory Board, UMD College Park Scholars Program

Sept. 2018 - May 2020

Science, Technology and Society (STS)

- Provide Scholars Executive Board with student voices and program updates at biweekly meetings.
- Organize peer-mentor courses advising events, STS Field Trips, and Fundraisers for ~150 students.