

## EDUCATION

### University of Maryland, College Park

B.S. Computer Science 2020

3.87 GPA

Technology Entrepreneurship Minor

Design Honors Program (DCC)

QUEST Honors Program

Maryland Images (Tour Guides)

## SKILLS & COURSES

**Languages:** HTML/CSS/JS, Python, Java, SQL, PHP, JavaScript, C, Assembly (Y86)

**Frameworks/Tools:** Bootstrap, Flask, Play, React, Selenium, JIRA, Confluence, Git, Sketch, GraphQL, MEAN Stack, NodeJS, ExpressJS, AngularJS, MongoDB

**Courses:** Algorithms, Applied Statistics, Data Science, Research in Human-Computing Interaction, Discrete Structures, Computer Systems, Data Structures, Multivariable Calculus

## EXPERIENCE

### QUESTDev

Developer + Product Manager

College Park, MD  
Sep 2017 to Current

- QUEST: Interdisciplinary honors program that focuses on product design and development through teamwork
- Working on designing and developing [advanced web directory](#) for QUEST students, alumni, and faculty
- Directory built with MEAN stack (MongoDB, ExpressJS, AngularJS, NodeJS)

### University of Maryland

Undergraduate Teaching Assistant

College Park, MD  
Fall 2017

- Leading class discussions, office hours, and review sessions for CMSC131 (Introduction to Computer Programming) for ~30 students

### LendUp

Software Engineering Intern

San Francisco, CA  
Summer 2017

- Financial technology startup with a socially impactful mission: Provide anyone with a path to better financial health
- Managed both product and engineering aspects of transaction synthesis project for credit card
- Wrote project briefs, architecture diagrams, feature tickets, design/development roadmaps, and code
- Performed comprehensive data scraping to get transaction merchant info, saving the company ~\$1 million over the next year
- Built scraping within a backend Python service, helping pave the way for service-oriented architecture within the company
- Implemented daily job for new transactions & merchants, and integration with mobile app for new transactions
- Designed front-end changes in Arrow Card app to deliver enhanced transaction insights to users
- Enhanced accessibility for vision-impaired users in mobile app, changes are now live in the [app store](#) (JavaScript, React Native)

### BookHolders

Software Engineering Intern

College Park, MD  
Summer 2016, Winter 2016

- Small business dedicated to providing students with a financially accommodating alternative to traditionally expensive textbooks
- Wrote + optimized Python (Selenium server)code using XML templates
- Performed major upgrades (integration with Flask backend, UI/UX overhaul) to internal Android app
- Designed and developed brand-new user dashboard by integrating React.js with Flask backend
- Wrote barcode generation algorithms to dynamically print USPS labels (ASP/.NET/VB)
- Scraped websites and order emails to return clean data (Selenium server, Python regular expressions)

## PROJECTS

### [SparkMark](#)

Jan 2017 to Current

Co-founded a non-profit student-run consulting organization that specializes in utilizing a Gen Z perspective to help startups and small businesses better understand and adapt to a changing business climate. ([gosparkmark.com](#))

### [Bipartisan](#)

Feb 2017

Flask web app that uses machine learning and natural language processing to find the credibility of news articles. ([hophacks-bipartisan.herokuapp.com](#))

### [Galileo](#)

Jan 2017

Flask web app that uses a special pruning algorithm to find the optimal UMD class schedule based on a student's classes and preferences. ([hackstreetboys-galileo.herokuapp.com](#))

### [PhoneBuzz](#)

Oct 2016

Flask web app that plays Fizz Buzz with a user through a phone call using Twilio. ([rach-phonebuzz.herokuapp.com](#))