

## EDUCATION

University of Maryland, College Park  
BS in Computer Science and Finance  
Entrepreneurship & Innovation Honors  
Expected: May 2019 | GPA: 3.91

## PROGRAMMING LANGUAGES

Java | Python | Visual Basic | Ruby | C  
HTML | CSS | JavaScript | React.js | jQuery  
Node.js | Flask | Rails | SQL | MongoDB  
Android | iOS (Objective C)  
Exposure to Swift, React Native

## TECHNICAL TOOLS

AWS | Heroku | Git | GitHub | Jira | Jenkins  
Sketch | Adobe (Photoshop, InDesign,  
Lightroom, After Effects, Muse, XD)

## PROJECTS

**UMD Google Cal Schedule Importer**  
*[schedule-importer.umd.edu](#)*  
\*1,600 schedules imported + counting!  
Chrome Extension that imports a student's  
course schedule into Google Calendar

**Open Source Hackathon Expo App**  
*[github/bitcamp/hackathon-expo-app](#)*  
Bringing powerful admin and sponsor  
voting features to the classic expo app

**Metronome**  
*[github.com/thisistimothychen/metronome](#)*  
\*1st Place Google NYC Intern Hackathon  
Improving the metro experience via real-  
time IOT displays of incoming car capacity

**Alexagram**  
*[devpost.com/software/alexagram](#)*  
Holographic virtual assistant controlled via  
Alexa, built on Node/Express.js, socket.io

**Netscout Manager Reporting Tool**  
*[netscout.timothychen.me](#)*  
Ruby on Rails web app automating report  
generation for team performance data

**Lyrics Sanitizer**  
*[lyrics-sanitizer.herokuapp.com](#)*  
Ruby on Rails web app that analyzes song  
lyrics and censors explicatives

**QUESTify Photo Filter App**  
*[questify-umd.herokuapp.com](#)*  
Flask server using Facebook OAuth to  
generate branded profile photos

**Ecofy**  
*[github.com/thisistimothychen/ecofy](#)*  
PowerPoint Add-In/Macro to optimize a  
presentation for printing

## WORK EXPERIENCE

**Lyft, Software Engineering Intern** (Fall 2018)  
■ Productionized a React.js/Python web tool to manage Personal Power Zones, a driver incentive aimed at balancing supply and demand, unblocking a nationwide rollout (saved 3 hours/week for 7 regions, expandable to 40+ hours for 33% of regions)  
■ Pioneered a polygon drawing tool that visually displays server-side heatmap polygons (built on top of Google Maps API)  
■ Streamlined data science workflows via an AWS S3-backend dynamic form with robust validations, saving 6-10 hours/week  
■ Contributed features and bugfixes to Lyft's shared React.js component library

**Google, Software Engineering Intern** (Summer 2018)  
■ Implemented image upload and insertion for Sheets Android and iOS apps using tools like cross-platform JavaScript, J2ObjC, and Dagger dependency injection  
■ Wrote a design doc detailing options to share cross-editor (Docs/Slides) and cross-platform code for Sheets and presented a talk to provide background for the team  
■ Refactored cross-editor code to be more generic and refined previous assumptions specific to Docs and Slides to unblock implementation challenges on Sheets

**CMSC389k (Full Stack Web Dev with Node.js), Course Facilitator** (Spring 2018)  
■ Taught a 1 credit university course to introduce practical skills and modern web tech

**CMSC351 (Algorithms), Undergraduate Teaching Assistant** (2017 - Present)

**Appian, Software Engineering Intern** (Summer 2017)  
■ Implemented frontend components in React.js and SAIL (Appian's proprietary language), allowing clients to build powerful and beautiful interfaces with little code  
■ Refactored top-level Java framework for calculating component states  
■ Prototyped and presented machine learning use cases within the Appian platform  
■ Documented internal SAIL functions to increase productivity and knowledge sharing

**Netscout, Software Engineering Intern** (Summer 2016)  
■ Developed and deployed to Heroku a secure Ruby on Rails web app analyzing team productivity, eliminating 5 man-hours of manual chart/metric generation per week  
■ Queried Rally APIs to generate and save reports in sqlite and postgres databases  
■ Implemented Resque/Redis background processing for running analysis scripts  
■ Crafted an intuitive and responsive dashboard with Highcharts.js data visualizations  
■ Fixed legacy code inaccuracies for generating defect severity metrics

**Triple G, LLC (acquired), Chief Technology Officer** (2015 - 2017)  
■ Generated widespread exposure (30 million views/month) through video content  
■ Provided domain management and responsive web design services to clients  
■ Ported iOS applications from Objective-C to Swift and deployed to iTunes Store

## RELEVANT EXPERIENCE

**Technica, Tech Team Backend Lead** (2018 - Present)  
■ Led a 4-person team in building out a powerful open source hackathon expo app  
■ Architected Flask app implementation details and designed parallelizable task list

**Bitcamp, Advisor, Co-Executive Director Emeritus** (2015 - Present)  
■ Led 70 organizers to plan and execute largest US spring hackathon (1,275 hackers)  
■ Raised and managed \$195,000+ in funds  
■ Coordinated with university administration and officials, VIPs, facilities management, vendors, sponsors, volunteers, and hackers to provide a seamless experience

## AWARDS AND ACHIEVEMENTS

■ Omicron Delta Kappa National Leadership Society, Sigma Circle (2018 - Present)  
■ University of Maryland President's Scholarship (2015 - Present)  
■ Spirit of Maryland Finalist (2018)  
■ 1st Place, Google NYC Intern Hackathon (see Metronome) (2018)  
■ 1st Place, IBM Design Challenge, QUEST Honors Program (2017)  
■ 3rd Place, Andreessen Horowitz (a16z) Battle of the Hacks (see Alexagram) (2017)  
■ \$2,500 Outstanding Pitch, Audience Choice Awards, Terp Tank (see Dinezen) (2017)  
■ 2nd Place, Deloitte Consulting Case Competition (UMD) (2017)  
■ 2nd Place, 1&1 Cloud API Challenge, YHack (2016)  
■ 2nd Place Overall, Daemon Dash Hackathon (see SquareUp) (2015)  
■ National Merit Scholarship (College-sponsored) (2015)