

EDUCATION

University of Maryland, College Park
BS in Computer Science and Finance
Entrepreneurship & Innovation Honors
Graduated May 2019
Honors: *cum laude* (GPA: 3.92)

PROGRAMMING LANGUAGES

Java | Python | Visual Basic | Ruby | C
HTML | CSS | JavaScript | React.js | jQuery
Node.js | Flask | Rails | SQL | MongoDB
Android | iOS (Objective C) | React Native
Jest | Enzyme | JUnit

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 hackathon expo app,
built on React.js and Python/Flask

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

Google, *Software Engineer* (2019 - Present)
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 - 2019)

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 - 2019)

- 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, *Co-Executive Director Emeritus, Advisor* (2015 - 2019)

- 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 - 2019)
- Spirit of Maryland Finalist (2018)
- 1st Place, Google NYC Intern Hackathon (see Metronome) (2018)
- 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)