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- Logical problem solver who excels at analytical thinking processes to tackle complex projects
  - Has a passion for web and software development and applies a solid work ethic to contribute to goals
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## EDUCATION

**B.S., Major: Computer Science, University of Maryland, College Park, MD** Expected May 2019

- **Quality Enhancement Systems and Teams (QUEST) Honors Program Fellow**, Engage in multidisciplinary teamwork, quality management, process improvement, and system design projects. Studied in Japan to learn quality and logistics practices from Japanese companies like Toyota and Panasonic.
- **Business Analytics Minor**, Apply statistical and quantitative techniques for data driven decision making
- **Dean's List Academic Honors** GPA: 3.43/4.00

## EXPERIENCE

**Web Developer Intern, HireKeep, Washington, D.C.** May 2017 – August 2017

- Designed and implemented aspects of the the HireKeep Web Platform using Node.js, Angular, HTML, and CSS
- Incorporated UI/UX design principles to improve user retention and provide consistent branding across platforms
- Initiated the team's use of git branching workflows to manage the development of new features

**Student Software Engineer, University of Maryland, College Park, MD** March 2016 – January 2017

- Created and maintained Java-based web applications for use by faculty and students
- Deployed automated functional tests using Selenium and JUnit to thoroughly test web applications
- Converted paper forms to digital forms using REST APIs to streamline IT processes
- Followed the scrum framework for agile software development process to organize tasks

### Coursework

- CMSC420: Data Structures (Fall 2017)
- CMSC451: Design and Analysis of Computer Algorithms (Fall 2017)
- CMSC330: Organization of Programming Languages (Spring 2017)
- CMSC351: Algorithms (Spring 2017)

### Personal Projects

- Coded a web app to graph interesting patterns from raw UMPD arrest data using user queries (ter.ps/umpdarr)
- Developed a web app that gives math problems and adjusts difficulty based on emotions (ter.ps/edup)
- Created a personal website for a friend using HTML, CS, JS, and JQuery (timspurfan.github.io)

**Programming Languages:** Node.js, Angular, Java, Python, C, Ruby, HTML/CSS, SASS, Javascript, JQuery, SQL, OCaml, Prolog  
**Character Traits:** Dependable, Resourceful, Attentive to Detail, Organized, Cooperative, Patient

## LEADERSHIP ACTIVITIES & INTERESTS

**Lead Web Developer, QUESTDev Software Team, University of Maryland, College Park, MD** September 2016 - Present

- Direct the development of full stack web apps for QUEST and teach the stack to QUESTDev newcomers

**Tech Lead, Terp Thon Dance Marathon, University of Maryland, College Park, MD** March 2017 – Present

- Head a team of 5 developers to design and update the Terp Thon website to meet requirements from the E-Board

**Logistics Organizer, Bitcamp Hackathon, University of Maryland, College Park, MD** August 2016 – Present

- Facilitate the minor admittance process and produce internal and external schedules for the Bitcamp Hackathon

**Vice-President, Rubik's Cube Club, University of Maryland, College Park, MD** August 2015 – Present

- Lead a team of 4 organizers to stage 300-competitor Rubik's Cube Competitions; Staff US Nationals annually
- Solve the Cube as fast as possible; teach beginners how to solve the Cube; participate in and staff competitions

**Board Member, Cubes 4 Kids** November 2016 – Present

- Coordinate outreach and growth efforts for charity that teaches kids in hospitals how to solve the Rubik's Cube

**Scholarship:** UMD President's Scholarship

**Honors:** Accomplished Member of College Park Scholars; National AP Scholar; AP Scholar with Distinction