

# Ryan Stumbaugh

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## EDUCATION

### University of Maryland, College Park

Class of 2019

3.8 GPA

- Bachelors of Science in Computer Science
- Minor in Business Analytics
- Member of College Park Scholars (Business, Society, and the Economy)

## SKILLS

- Java, Ruby, C# / ASP .NET, OCaml
- HTML5, CSS3, JavaScript (ES6, React)
- Experience with SQL and NoSQL databases
- XML processing and XSLT
- Experience with Python (Pandas, NumPy)
- Comfortable with Git and Unix CLI

## WORK EXPERIENCE

### Web Developer, University of Maryland Stamp Student Union

August 2016 – Present

- Utilized ASP .NET, C#, and MySQL to create and organize webpages for high-volume student union
- Planned and executed a complete redesign and refactor of large application and user management system for service-learning trips
- Collaborated and communicated with business clients to determine their application's needs
- Technologies: ASP .NET Web Forms, C#, MySQL, HTML / CSS, jQuery

### Software Development Intern, TD Ameritrade

May 2017 – August 2017

- Developed components and improved workflows for Marketing website Content Management System
- Spearheaded responsive redesign and code refactor of vital component as a part of company's CMS
- Effectively communicated with marketing department to ensure that solutions fit the business requirements
- Technologies: XML processing, XSLT, HTML / CSS, jQuery, Perl, TeamSite

## PERSONAL PROJECTS

### TerpSearch, <https://terpsearch.me>

- Course filtering web application for University of Maryland courses powered by student feedback
- Allows users to rate, search, and filter courses and professors based on nearly a dozen criteria
- Technologies – React.js, node.js / Express.js, Webpack, mongoDB, Firebase, HTML / CSS / JavaScript, and Git

### umd.io Open Source API, <http://umd.io>

- Contributed to student-created API for University of Maryland data including courses, maps, and bus routes
- Added an endpoint for professors (with documentation) and improved scraping and HTML parsing
- Generalized semester scraping to ensure API is always up-to-date
- Technologies – Ruby, Sinatra, Rack, Vagrant, nginx, and Git

### Battleship

- Game of Battleship written in Java, can be played either against a computer or over LAN with a partner
- Technologies – Java, Swing, TCP / IP networking

### SolarSim, <https://rstumbaugh.me/solarsim>

- 3D solar system simulator with accurate orbital mechanics, users can click on planets to display celestial data
- Technologies – JavaScript, three.js, HTML / CSS

## HONORS AND AWARDS

Dean's List, College of Computational, Mathematical, and Natural Sciences

Fall 2015 – Present

President's Scholarship Recipient, University of Maryland

Fall 2015 – Present