Ryan McCaffrey

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Education

Princeton University **Sept 2015 – May 2019**

B.S.E., Computer Science; Current GPA: 3.7

Relevant Coursework: Reasoning About Computation (COS 340, current), Contemporary Logic Design (ELE 206, current), Algorithms and Data Structures (COS 226), Intro to Programming Systems (COS 126)

Extracurricular Activities: Princeton Math Competition (PUMaC) tech team leader, CS lab teaching assistant

Skills

- **Programming Languages:** Java 7, Python 2, Swift, C, basic C++, x86-64, Javascript, HTML/CSS
- **Libraries/Frameworks:** Django, Express.js
- **Databases:** MySQL, SQLite
- **Tools:** Git, Adobe Photoshop

Experience

Brightwire Inc. **Jun 2016 – Aug 2016**

Advanced Projects Intern (Software Engineering) *New York, NY*

- Developed full-stack application that warehouses time-sensitive financial data into company's MySQL database. Data is accessed via self-built website that handles conversion of data into analyst friendly spreadsheets. Handles 500MB of data per weekly data update, used by 20+ company analysts weekly. Python, Zeep SOAP client, MySQL, Node.js, Express framework, Javascript, HTML/CSS.
- Developed Chrome extension and Python web scraping application to periodically push financial data into user-customized Google sheets and Excel spreadsheets. Used by 20+ company analysts on monthly basis. Javascript, Google Sheets API, Python, BeautifulSoup, Scrapy framework.

New York University **Jun 2013 – Sept 2013**

Intern in Computer Vision Research *New York, NY*

- 3-dimensional segmentation algorithm for indoor scenes, which relies on support relationships between components of image. Enlarged research dataset by recording indoor scenes, wrote program to convert image data into format usable by segmentation algorithm. Kinect for Windows SDK, MATLAB, C++.

Projects

PUMaC Web Application **Mar 2016 - Present**

- PUMaC is an annual international high school math competition hosted at Princeton. Web application supports registration for teams and proctors, score input, computation of competition winners. Includes “live round” component of competition, where question correctness checks and team score updates are performed real-time. Django framework, MySQL database.
- Ongoing project; currently team leader. Additional responsibilities include organizing meetings, managing deployment branch, communications with other teams within PUMaC staff.

dwn2 **Nov 2015**

- Created iOS application that allows users to create events and invite friends for spontaneous meet-ups. Implements push notification system that mutes after a declined invite or lack of timely response.
- Team of five, full-stack development. Used Microsoft Azure database and Facebook API for secure login. Improved abilities in Swift, Xcode, HTML/CSS.