Ryan McCaffrey

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Education

Princeton University **Sept 2015 – May 2019**

B.S.E., Computer Science; Current GPA: 3.8

- *Extracurricular Activities:* Princeton Math Competition (PUMaC) tech team leader, CS lab TA

University of California, Berkeley **Jan 2017 – May 2017**

Concurrent Enrollment; *GPA: 4.0*

- *Coursework:* Intro to Machine Learning (CS 189), Efficient Algorithms/Intractable Problems (CS 170)

Skills

- **Programming Languages:** Java, Python, C, Thrift, Javascript, HTML/CSS, Ruby, x86-64
- **Libraries/Frameworks:** Django, SQLAlchemy, BeautifulSoup, Scrapy, Express.js, jQuery
- **Platforms/Databases:** Kafka, Memcached, MongoDB, MySQL, SQLite
- **Tools:** Git, Adobe Photoshop, LaTeX

Experience

Appboy (soon to be Braze) **Jun 2017 – Aug 2017**

Software Engineer Intern *New York, NY*

- Developed Thrift caching service to increase speed of data transmission between MongoDB and Kafka streams/connectors. Also provides a read-only Thrift service that queries over multiple sharded Mongo clusters, to be integrated with other parts of Appboy's stack.
- Programmed in Java, Thrift, Ruby on Rails; worked with Kafka streams and connectors, Memcached, MongoDB.

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

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

- Developed full-stack application that warehouses time-sensitive data into company's MySQL database. Data is accessed via self-built website that converts 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.

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.
- Built and maintain a web application that supports registration for teams and proctors, score input, and "live round" component of competition. Django, MySQL, HTML/CSS.
- Ongoing project; currently team leader. Additional responsibilities include organizing meetings, managing production code and staging site, communications with other teams within PUMaC staff.