

Ryan McCaffrey

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EDUCATION

Princeton University

Sept 2015 – May 2019

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

- *Extracurricular Activities:* CS lab teaching assistant
- *Coursework:* Operating Systems, Computer Vision, Information Security
- *Semester at UC Berkeley (Spring 2017):* Intro to ML, Efficient Algorithms/Intractable Problems

SKILLS

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

EXPERIENCE

Bridgewater Associates, LP

Jun 2018 – Aug 2018

Technology Associate Intern

Westport, CT

- Designed and built new microservice management paradigm for Bridgewater's Trading Technology platform. Included initial product analysis, implementation, and rollout. System used ZooKeeper to support client-side service discovery and leader election, eventually facilitating side-by-side deployments with zero downtime.
- Large productivity and stability improvement for platform and 70+ person development team. C#, .NET Framework

Braze (formerly Appboy)

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. Service provided a read-only Thrift service that queries over multiple sharded Mongo clusters, to be integrated with other parts of Appboy's stack.
- Java, Thrift, Ruby on Rails; worked with Kafka streams and connectors, Memcached, MongoDB

Brightwire Inc.

Jun 2016 – Aug 2016

Software Engineer Intern

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.

PROJECTS

Princeton University Math Competition (PUMaC) Web Application

Mar 2016 – May 2018

Tech Team Lead

- PUMaC is a student-run international math competition for 700+ high school students. Occurs annually.
- Built and maintained web application that provides an online registration and grading system for PUMaC. Significant improvement from previous website; grading automation sped up over 10x, and better security model for persistent data between yearly competitions. Django, MySQL, HTML/CSS.
- Development lead for 5-person team. Enabled agile workflow by organizing weekly sprints and team Trello board. Managed production and staging deployments, point of communication for other teams within PUMaC staff.