

Alexander H. Patel

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EDUCATION

Harvard College, Cambridge, MA
Bachelor of Arts, Mathematics and Philosophy, expected May 2018
Minor: Computer Science
GPA: 3.56/4.0
Major GPA: Mathematics 3.85/4.0 (4 courses), Philosophy 3.85/4.0 (4 courses)
Relevant coursework: Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Statistical Software, Discrete Mathematics, Linear Algebra.

COMPUTER SKILLS

Languages Python, C, R, SQL.
Tools: Unix Shell, Git, JIRA, Amazon AWS, SciPy, MySQL, Redis, Nginx, Latex, HTML/CSS.

WORK EXPERIENCE

Quantitative Software Engineer *September 2015 - September 2016*
EverQuote (formerly Adharmonics), Cambridge, MA

- Acted as technical lead for development of real-time bidding (RTB) bidder platform. Designed and implemented high-volume, low-latency networking server in Python on Amazon AWS cloud. Planned and organized project work for team of four engineers. Coordinated technical platform integration with real-time auction exchanges.
- Implemented machine learning (esp. multi-armed bandit) algorithms for e-mail and banner display content optimization.
- Earned 2nd place in company hackathon with real-time site arrivals geographic visualization.

Software Engineering Intern *Summer 2015*
Adharmonics, Cambridge, MA

- Built third-party ad server for Google AdWords display advertising network.

Student Campaigns Organizer *May 2014 - May 2015*
Free Software Foundation, Boston, MA

- Coordinated community and developer action on Javascript licensing and Digital Rights Management campaigns.
- Authored technical news and issue posts topical to the free and open-source software community.
- Administered design and content updates for organization website.

TEACHING

Teaching Fellow *2015-2016*
Harvard Computer Science Department

- Course instructor for CS161: Operating Systems and CS61: Systems Programming.
- Administered weekly section and office hours.
- Graded student C programming assignments, design documents, and exams.

Course Assistant *Spring 2016*
Harvard Mathematics 156: Mathematical Foundations of Statistical Software

- Held weekly office hours and evaluated student proof presentations.
- Graded student R homework assignments and term projects.

EXTRA-CURRICULAR ACTIVITIES

The Harvard Crimson, programmer for website back-end

The Harvard Crimson, reporter on Harvard Business School beat

Harvard club lacrosse, midfield player

Boston Museum of Science Computer Clubhouse, volunteer mentor