Jessica Lin

Curriculum Vitae

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Profile

4th year Computer Science and Cognitive Science double major with interests in.

- Brain-Machine Interfaces and Computational Modeling
- Machine Learning

Education

2011-2015 **Bachelor of Arts**, *The University of California*, Berkeley, *GPA – 3.66*.
Specializing in Computer Science and Cognitive Science
Coursework: Data Structures, Machine Architecture, Algorithms, Databases, Artificial Intelligence, Embedded Systems, Computational Biology

Technical Skills

Proficient In Java, Python, Ruby on Rails, Javascript, HTML, CSS, MATLAB, *NIX and Git
Familiar With SQL, XML and C

Projects

Sept. 2013 – Present **Berkeley Public Schools Fund: Friends and Family Grant Web Application**, Blueprint.

- Using Ruby on Rails to develop a web application to allow district teachers to apply for and crowdsource grants.
- Designating various user features and authorizations for admins, applicants, and donors.
- Working with PostgreSQL and Heroku to deploy for entire Berkeley school district in Fall 2014.
- Pilot website: `https://schoolsfund-friendsandfamily.herokuapp.com`

Experience

June 2014 – August 2014 **Software Engineering Intern**, Redfin,
San Francisco, CA.

- Built from scratch the controller API and front-end UI of an entire dashboard for internal agents to view holistic settings and stats within a specific business market. Independent, full-stack project.
- Participated in design reviews with the CTO and CEO of the company to demo the dashboard.
- Utilized SQL, Spring, Hibernate, Java, Javascript, HTML, and CSS for full stack work.

May 2013 – Present **Undergraduate Researcher**, AMPLab (Algorithms, Machines, People),
Berkeley, CA.

- Data mining log analysis queries using machine learning in order to draw insight on log analysis patterns.
- Scripting in Python (using SciPy, NumPy, and scikit-learn) and working with UNIX and Splunk
- Generating figures for and participating in the writing of an accepted paper for the LISA conference in 2014 (see Publications below).

Publications

2014 S. Alspaugh, B. Chen, J. Lin, A. Ganapathi, M. Hearst, and R. Katz. Analyzing Log Analysis: An Empirical Study of User Log Mining. In *Large Installation System Administration Conference*, 2014.

Organizations

2013 – 2014 **Blueprint**, *Technology for Non-Profits*, *calblueprint.org*.

- Internal Vice President - planned and organized all internal events such as our first social good hackathon
- Project Outreach Chair - reached out to local non-profits and updating social media channels about our work
- Project Developer - developed standalone web applications for a client in teams of four other students

2013 – 2014 **Upsilon Pi Epsilon**, *Computer Science Honor Society*, *upe.berkeley.edu*.