Xiayang Fan

(pronounced: shy-young fan)
2523 Ridge Road, Berkeley, CA
xiayangfan@berkeley.edu
609-213-7416

Educational Experience

University of California, Berkeley,
September 2013 – May 2017(Expected)
Undergraduate Student, Major-Computer Science, *GPA*-3.56
Relevant Courses - Structure and Interpretation of Computer Programs.
• Data Structures, • Machine Structures • Intro to Artificial Intelligence • Calculus II, • Multivariable Calculus • Linear Algebra and Differential Equations, • Discrete Mathematics and Probability Theory, • Algorithms, • Databases • Machine Learning

Programming Skills

- *Languages and Frameworks*:
- *Advanced* : Python, Java, ELK Stack (Elasticsearch, logstash, kibana), SolrCloud, SQL
- *Familiar* : C, MIPS Assembly, Mongodb, Redis, Spark, MapReduce,, HTML, CSS, Perl
- *Operating Systems*: Linux/Unix, Windows,
- *Softwares*: Sublime Text, Eclipse/Spring Tool Suite, Apache Server

Work Experience

-Walmart ECommerce Software Engineer Intern- Backend   June 2016-Present

- Developing a Restful web service which predicts the fill rate of supply trucks at Walmart's distribution centers, based on the amount of orders each fulfillment is receiving so far that day
- Extracts new order data from the main Oracle SQL database every 20 minutes and indexes the necessary columns into SolrCloud to do the necessary computation.

-JD Power Software Engineer Intern - Data   June 2015- August 2015

- Helped to developed a Java based Restful Web Service which both fetches database entries from Oracle and Elasticsearch as well as allowing the user to update the elasticsearch database.
- Used logstash as another way to update the elasticsearch database by writing configuration files which reads from a log file and feeds the log file data into elasticsearch. Wrote java programs to convert json and csv files into the log file format to feed into logstash.
- Used Kibana to generate charts, graphs, and tilemaps to display the data from elasticsearch.
- Helped to setup the Apache server where the web service will be deployed.
  - Provided htpaccess password authentication to protect certain endpoints of the API
- Wrote Perl Scripts to automate many day to day tasks done by our team

- Comcast Technology Rotation Internship Program   June 2014-August 2014
rotational internship: Comcast - 4 weeks, Solve Media - 3 weeks, Artisan Mobile - 3 weeks.

- Worked on a wide variety of tasks. Wrote feature files in Cucumber to test Comcast TV-GO site functionality. Modified and updated SQL databases for Solve Media's website. Wrote an application which uses Redis and MongoDB to alert Artisan Mobile of new users

Projects

- *Neural Network(April 2016, Class Project):* Implemented a neural network which reccognizes handwritten digits with a 95% accuracy.
- *MapReduce (October 2014, Class Project)*: A program using Spark that runs over the Amazon EC2 clusters to solve any generalized versions of the sliding game "15" given an initial width and height of the board.

Other Extracurriculars

- *UPE Webmaster (Spring 2016):* Webmaster of Berkeley's Computer Science Honor Society Upsilon Pi Epsilon. Membership is extended to all those in the top ⅓ of Berkeley's CS class.
- Helped out with the club website by writing scripts to automate some processes in the backend.
- Modified CSS templates to improve site design
- Coordinated projects done by UPE members and candidates