Shijie Rao

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Education

Carnegie Mellon University

Pittsburgh, PA | May 2017

B.S. in Information Systems
Minor in HCI
Cumulative GPA: 3.44/4.00
Dean's list (fall 2014, spring 2016)

Relevant Courses

Application Design & Development
Software Development Project
Building Distributed Application
Designing Human-Center Software
Principles of Database Systems
Differential Equation
Introduction to Mathematical Finance

Skills

Programming — HTML, CSS, Javascript, JQuery, SQL, Node.js, MongoDB, Java, Python, Ruby on Rails, C, Postgres
Languages — fluent in Mandarin (writing and speaking, cross-cultural experience)

Activities

- Art staff at The Tartan newspaper
- Member of the CMU Chapter of the American Red Cross
- Math tutor in high school

Experience

Software Development Engineer Intern, Amazon

May 2016 - August 2016 | San Francisco, CA
- Created the artist detail page for Amazon Music Web Store tablet view using Java Spring framework, JSP and SCSS.
- Integrated internal APIs with the Amazon retail website for artist data.
- Worked closely with UX team to create layout, redesign artist detail desktop view, and optimize the user experience for Amazon Music.

Mathematics Department Grader, Carnegie Mellon University

August 2014 - May 2016 | Carnegie Mellon University, PA
- Grader of Multivariable Analysis.
- Assisted professor and teacher assistants in tutoring students.

Software Engineer Intern, Credit2go

July 2015 - August 2015| Shanghai, China
- Improved the front end design of the C2C website.
- Created the gridselect extension in EXT JS for the modularized back-end EXT JS web application to increase the usability of the website.

Projects

BCHS Foster Web Application, Class Project

January 2016 - May 2016 | Pittsburgh, PA
- Worked in team of 3 to implement a web application to digitize the animal fostering process and increase work productivity for Beaver County Humane Society.
- Interviewed the staffs and the fosters to prototyped and designed the web application and user flow.
- Created the application using Ruby on Rails to digitize the foster application, display all fosters and animals, automate the matching process, and integrate with the exiting software and database.
- Developed an algorithm for optimizing the matching results, and equally distributing the fostering opportunities between new and experienced fosters.

Uber SurgeEstimator, Class Project

December 2015 | Pittsburgh, PA
- Created a web application to give a better insight of Uber surge pricing using Node.js and MongoDB.
- Utilized Google Map API for map display, route calculation, geolocation lookup and surge estimations for nearby locations.
- Used Uber API for pricing, nearby surge suggestions, and to display surges for the given location for user reference.