

Hamza Hashmi

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Education

University of California, Berkeley

August 2011 - Present

BA Computer Science, Expected Graduation: December 2015

Coursework: Structures and Interpretations of Computer Programs, Data Structures, Machine Structures, iOS development, Signals and Systems, Algorithms, Computer Networking, Databases (in process), Software Engineering (in process), Web Design (in process)

Technical Skills

Languages: Java, Python, Objective C, Ruby, SQL (in process), HTML/CSS (in process), Javascript (in process) Experience with C, MATLAB, Scala

Environments: Xcode, Git, MySQL (in process), Experience with Visual Studio and Amazon EC2

Frameworks: Numpy, Hadoop, Cucumber, Ruby on Rails (in process)

Employment

Carl Zeiss - Software Engineering Intern

June 2014 - August 2014

- Wrote an algorithm in python (numPY and sciPY frameworks) to find the best fitting ellipse through a given set of X and Y Coordinates. This algorithm will help check if a Zeiss 3D imaging system is aligned properly.
- Analyzed image brightness deterioration of images taken by 3D Imaging systems. This research was presented at Zeiss quarterly business review and will be the reason for changes in field service data acquisition.
- Converted Matlab legacy code, which computed the distance between points in images, to Python.

UC Berkeley CS 10 - Lab Assistant

February 2013 - May 2013

- Position in the introduction to computer science course at UC Berkeley, where I assisted and guided students who were having trouble with particular lab or homework exercises.
- Instructed students on big idea computer science themes, such as iteration and recursion.

Projects

Youth Media Tracker (February 2015-Present): Currently working with a team of 5 to build a platform for students in an underprivileged county. This web application will allow students to pitch ideas for projects they want to work, and allow teachers or administrators to approve them. Built using rails. URL - youth-media-tracker.herokuapp.com (under-construction)

Symmetric Hash Join (March 2015): Used scala to develop a symmetric hash join algorithm that allows streaming tuples from database relations at the same time.

RottenPotatoes (February 2015): Web application built using ruby on rails that allows users to put movies into a database, sort movies by title or rating, and filter movies by rating. Tested for functionality using Cucumber. URL- rp169.herokuapp.com/movies

Project Gutenberg Wrangling (January 2015): Wrote a script that uses python, bash, and Unix utilities to organize the contents of a large data file consisting of eBooks into csv files. Wrote streaming Python and bash code that only required a fraction of data to be in memory to account for datasets larger than memory.

PillJar (August 2014 - Present): Developing an iPhone Application that keeps track of prescription medication and reminds users to take their medication using push notifications.