

JADE HUA

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EDUCATION

University of California, Berkeley, **B.S Electrical Engineering and Computer Science**

Awards: Regents' and Chancellor's Scholarship, **Expected Graduation Date**: May 2016

Relevant Coursework

Structure and Interpretation of Computer Programs

Great Ideas in Computer Architecture

Discrete Mathematics and Probability

Introduction to the Internet: Architecture and Protocols*

Data Structures and Algorithmic Analysis

Introduction to Artificial Intelligence

Efficient Algorithms and Intractable Problems*

Computer Security*

PROFESSIONAL EXPERIENCE

IBM, Software Developer Intern

Columbus, OH **May-Aug '14**

- Developed a modernized Connect:Direct web console through IBM'S JAVA 10x User Interface framework
- Leveraged Connect:Direct REST APIs to link back-end server queries to user interface
- Implemented iterative testing through JUnit tests and written test scripts for individual modules

UC Berkeley Graduate Assembly, Administrative Assistant-IT

Berkeley, CA **June '13-May '14**

- Lead developer and administrator of UC Berkeley's Graduate Assembly's website
- In charge of all Information Technology in Graduate Assembly's business office
- Worked on various web projects: *The Berkeley Graduate* online blog, ASUC's *Perspectives* Showcase website

UC Berkeley Robotic Learning Lab, Undergraduate Student Researcher

Berkeley, CA **June '12-Aug '12**

- Student researcher under EECS Professor Pieter Abbeel
- Built student web application to model Bayesian Networks used in CS188 (Introduction to Artificial Intelligence)
- Gave Robotic Learning Lab tours demonstrating PR2 robots to visiting student groups

PROGRAMMING PROJECTS

ASUC Perspectives Website | XHTML, Bootstrap, jQuery

April '14

perspectives.asuc.org

- Developed and designed website for ASUC's Perspectives Showcase for promotion purposes

Digit Recognition | C/MIPS

March-April '14

- Implemented digit recognition by comparing images to 8-bit templates
- Algorithm takes into consideration various rotations and translations of the images at hand
- Parallelized code with Intel's SSE, parallel threads, and loop unrolling

Hadoop Map Reduce | JAVA

Feb-March '14

- Implemented multi-threaded version of the minimax algorithm with Hadoop on Amazon EC2 servers
- Designed algorithm to solve for the most efficient solution to a game of Connect Four

Twitter Trends | Python

Sep-Oct'12

- Developed algorithm that displays geographic visualization of Twitter data
- Algorithm grouped tweets and analyzed sentiments over 24 hour periods

Modeling Bayesian Networks Application | JavaScript

July-Aug '14

- Developed application that allows for user creation of nodes and edges to represent various Bayesian Networks
- Coded computations of variable elimination, inference by enumeration, and d-separation

SKILLS: Java (4+ yrs), Python (2+ yrs), C (1 yr), XHTML, CSS, JavaScript, jQuery (2+ yrs)

Git, Eclipse, Agile Development, Adobe Photoshop