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

Reinforcement Learning | Python — **April '14**
- Implemented machine learning algorithms: Value Iteration and Q-Learning to teach a simulated robot controller to crawl

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

Kruskal's Algorithm | JAVA — **March '13**
- Coded encapsulated abstract data type: weighted, undirected graph with vertices of any object type
- Implemented Kruskal's algorithm for finding minimum spanning tree of a graph

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, JointJS — **July-Aug '12**
- 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), **Objective-C** (1 yr), **HTML5**, **CSS**, **JavaScript**, **jQuery** (2+ yrs)
Git, Eclipse, Agile Development, Adobe Photoshop