

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*

WORK EXPERIENCE

Lawrence Hall of Science, Student Web Developer

Berkeley, CA Aug'14- Present

- Develop both front-end and back-end of Lawrence Hall of Science mobile site

IBM, Software Developer Intern

Columbus, OH May-Aug '14

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

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)

ORGANIZATIONS

Innovative Design, Web Tier Member

Aug'14-Present

- Work with web tier team to develop and design responsive websites (HTML5, CSS, Node.js) for organizations on campus

Pioneers in Engineering, Mentor

Aug'14-Present

- Teach underprivileged high schoolers at Ralph Bunche High School in Oakland a unique robotics and programming lesson every week

Society of Women Engineers, Member

Aug'12-Present

- Promote and advocate for diversity in STEM and engineering on a campus and global level

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 considering rotations and translations
- 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 there 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 (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 (3 yrs), Python (2 yrs), C (1 yr), Objective-C (1 yr), HTML5, CSS, JavaScript, jQuery (2 yrs), PHP (1 yr)
Agile Methodology, iOS Development, Git, Eclipse