# JADE HUA

**Berkeley CA, 94704**
**Phone:** (650) 862-8128 **Email:** jadehua@berkeley.edu **Website:** jadelyn.github.io **Github:** github.com/jadelyn

## 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**,** Data Structures and Algorithmic Analysis, Computer Architecture, Introduction to Artificial Intelligence, Discrete Mathematics and Probability, Efficient Algorithms and Intractable Problems*, Introduction to the Internet: Architecture and Protocols*

## 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

**Code the Change,** Project Member Aug'14-Present
• Develop challenging mobile and web application solutions for nonprofits
**Innovative Design,** Web Tier Member Aug'14-Present
• Work with web tier team to develop and design responsive websites for organizations on campus
**Pioneers in Engineering,** Mentor Aug'13-Present
• Teach underprivileged high schoolers at Ralph Bunche High School in Oakland a unique robotics/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