Jeremiah Harris

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EDUCATION

University of California, Berkeley Expected May 2016

Bachelor of Science, Electrical Engineering & Computer Science

- **Relevant Courses:** Data Structures, Discrete Mathematics and Probability Theory, Internet Architecture and Protocols, Artificial Intelligence, Computer Simulations in Earth and Planetary Science, Efficient Algorithms and Intractable Problems, Database Systems, Computer Security, Machine Learning, Software Engineering

EXPERIENCE

Teal Networks Woodland, CA

Web Development Intern May 2013 – August 2015

- Developed service provider control panel for managing multiple cloud-based services centrally through the use of REST based APIs
- Provided front and back end work as needed for client websites, including redesign of user interface and restoring and improving functionality
- Trained new interns for proficiency in necessary languages and manage their work on company projects

Cashify Berkeley, CA

Web Development Intern May 2013 – January 2014

- Developed web-based games aimed to promote financial literacy among college students
- Utilized the Collie animation library for JavaScript to build cartoon game interface
- Led team of five in the development of a whack-a-mole style game designed to teach about credit score

PROJECTS

Diffusion of Gas Particles Simulation

- Created two-dimensional visual simulation of the movement of multiple gas particles within a closed container in MATLAB
- Programmed collision detection for particles and the resulting behavior for those involved in a collision
- Experimented with various scenarios, such as varying temperature and introducing new boundaries

Scheme Interpreter

- Built interpreter for subset of Scheme language in Python capable of reading expressions, procedure calls, procedure definition and evaluation of various special forms
- Interpreter able to be run in interactive mode or to evaluate the lines of an input file

Digit Recognition

- Wrote algorithm in C for identifying digits represented through 8-bit gray scale bitmap images
    - Compares input file with set of template images and computes squared Euclidean distance for each pair to determine most accurate match among digit templates
    - Capable of handling rotated, flipped, and translated images

SKILLS & INTERESTS

- **Programming:** Python, Java, C, MATLAB, HTML, CSS, JavaScript (jQuery), Node.js, PHP, SQL
- **Activities:** Taekwondo, Tennis, Volleyball, Robotics