

Janna Golden

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EDUCATION

University of California, Berkeley

Expected May 2016

Majors: Computer Science, Cognitive Science

College GPA: 3.579

Relevant Coursework

- Data Structures
- Artificial Intelligence
- Machine Structures
- Discrete Mathematics and Probability
- Structure and Interpretation of Computer Programs
- Linear Algebra and Differential Equations

WORK EXPERIENCE

Undergraduate Student Instructor - EECS Department, CS 10

01/14 - Present

- Teach concepts such as recursion, higher order functions, algorithms, and algorithmic complexity
- Teach labs biweekly and discussion weekly
- Work with other UGSIs and the professor to construct assignments, projects, and exams

Research Assistant - Cognition and Action Lab

11/14 - 01/15

- Helped to write code in C for the program used by subjects during testing

Reader - EECS Department, CS 10

08/13 - 01/14

- Graded student assignments including homework, projects, and exams
- Constructed rubrics for assignments

PROJECTS

Pacman Search and Games - Python

09/14

- Used iterative deepening, breadth first search, A* search (created heuristics that are both admissible and consistent), minimax, and expectimax algorithms to find the best path for Pacman in different scenarios
- Designed agents for classic Pacman and implemented reflex agents

LIFC Compiler - C, MIPS

07/14

- Wrote a compiler from the homebrew language LIFC to MIPS
- Wrote code that tokenized and parsed LIFC and then generated MIPS code

WU Graph and Minimum Spanning Trees - Java

04/14

- Implemented WUGraph, an ADT representing a weighted, undirected graph
- Implemented Kruskal's algorithm to find the minimum spanning tree of a graph

Network - Java

03/14

- Created a board game which can be played against a human player or a computer program (AI)
- Used the minimax algorithm with alpha-beta pruning to find the best move for the computer

SKILLS

Python, Java, HTML, CSS, C, Git, Scheme, MIPS

LEADERSHIP EXPERIENCE

Vice President Finance - Delta Gamma Fraternity

01/14 - 12/14

- Construct and manage a \$750,000 budget
- Pay bills and manage other VPs' and directors' budget
- Collaborate with other vice presidents to solve internal problems

Director of Funds - Delta Gamma Fraternity

01/13 - 12/13

- Managed apparel account and member fines
- Assisted VP Finance in other duties

Lab Assistant - EECS Department, CS 10

06/13 - 08/13

- Helped students in CS10 lab complete lab exercises

ACTIVITIES AND HONORS

Dean's Honors List

Fall 2012, Spring 2013

Honors Societies: Golden Key, National Society of Collegiate Scholars