Lois Ho

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Education

University of California, Berkeley — Expected Graduation May 2017
Computer Science

Skills

Programming Languages:

- Proficient in: Java, Python, Ruby
- Familiar with: HTML, CSS, Javascript, SQL

Bilingual—fluent in English and Chinese

Work Experience

8/14—present

Department	University of California, Berkeley Instructional and Research Information Systems / Electrical Engineering & Computer Sciences
Job Description	IT Helpdesk System Administrator 1. Troubleshot and diagnosed computer problems and facilitated DHCP connectivity 2. Registered and updated systems in IRIS/EECS domain; performed inventory on software 3. Assisted clients with excellent operational understanding of the technical support structure within EECS

Projects	Description	Important Concepts
Trip Finder (Java)	Used OOP design pattern to implement a graph package to support two clients. Find shortest trip given two locations	√ Implemented directed, undirected graph, BFS, DFS, A*, Dijkstra algorithm, shortest path, and traversal module
2048 (Java)	Implemented OOP to reproduce the widely played game as a Java application	√ Implemented efficient algorithms that considered all possible configurations such as adding and merging tiles
SQL Queries and Page Rank (SQL)	Used a SQL-based algorithm to compute "batch processing" to update values in table to resemble Page Rank's algorithm	√ Used SQL to query large data sets √ Implementation of BFS to help query a simplified Wikipedia graph
Ghostbusters (Python)	Designed Pacman agents that used sensors to locate and eat invisible ghosts	√ Implemented algorithms for performing exact and approximate inference using Bayes' nets
Personal Website	loisbess.com	√ Implemented from scratch HTML, CSS, and Javascript

Relevant Courses

CS186	Intro to Database Systems	Spring 2016, Hellerstein & Gonzalez
CS169	Software Engineering	Spring 2016, Armando
CS170	Efficient Algorithms and Intractable Problems	Fall 2015, Prasad & Sanjam
CS188	Artificial Intelligence	Fall 2015, Russell
CS61A	Structure and Interpretation of Computer Programs	Spring 2014, Hilfinger
CS61B	Data Structures and Advanced Programming	Fall 2014, Hilfinger & Hug
CS61C	Computer Architecture (Machine Structures)	Spring 2015, Vladimir