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, SQL
- Familiar with: HTML, CSS, Javascript

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*

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
Relational Database Management System (Java)	Effectively implemented a query language of SQL to create a program that had the ability read text-based tables	√ Scanned for user inputs, parsed code √ Displayed tables and exported them into a text file
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