GEMMA GUO

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
Major: Computer Science
Major GPA: 3.76
Anticipated Graduation: May 2019

COMPLETED COURSEWORK

Structure and Interpretation of Computer Programs (CS61A)
Data Structures and Algorithms (CS61B)
Computer Architecture (CS61C)
Discrete Mathematics and Probability (CS70)
Introduction to Cognitive Science (Cog Sci N1)

COURSEWORK IN PROGRESS
Introduction to Artificial Intelligence (CS 188)
Efficient Algorithms and Intractable Problems (CS 170)

EXPERIENCE

UC BERKELEY (ACADEMIC INTERN): January 2017-present

Teach and guide students during lab for CS61B on data structures, algorithms, and Java, ensuring that they complete lab assignments and understand the concepts behind their work.

TVU NETWORKS (WEB DEVELOPMENT INTERN): July 2016-August 2016

Interned at an electronics company that builds live mobile broadcasting equipment, where I worked on the backend development of a web application to monitor data usage of customers.

IMPACT (CAMP COUNSELOR): September 2016-October 2016

Volunteered at a fall camp for underserved children, in which I collaborated with other camp counselors to prepare experiments in order to teach the children basic chemistry.

PROJECTS

MAP OF BERKELEY (JAVA): Programmed the backend of a web-based, interactive map of Berkeley in Java, using real-world data. Wrote and used an A* algorithm to calculate the shortest path between any two locations, and utilized a quad tree data structure to store the map image in order to achieve different levels of detail when zoomed in or out.

TEXT EDITOR (JAVA): Programmed a basic text editor from scratch in Java, which allows users to insert and delete text in constant time, save and edit text files, change font size, and move a cursor with arrow keys or mouse.

MIPS ASSEMBLER (C): Programmed a MIPS assembler in C, which parses MIPS code and converts it to instruction code.

SKILLS

TECHNICAL: C, Python, Java, Lisp, SQL, HTML/CSS, JavaScript, Ruby; MS Word, MS Powerpoint, MS Excel

LANGUAGE: English, Chinese, Spanish – basic

ARTISTIC: Adobe Photoshop, Pixel art, Traditional art, Graphic design