Kristy Emelyn Lee

kristylee@berkeley.edu - (408)784-1561

Summary

Aspiring software engineer studying at the University of California, Berkeley. Enthusiastic about computer programming and software development. Eager to further develop programming skills through internship.

Education

University of California, Berkeley   08/18–Present

Sophomore - Bachelor's, Computer Science, 4.0

Relevant coursework: Data Structures, Great Ideas of Computer Architecture(Machine Structures), Structure/Interpretation of Computer Programs, Introduction to Database Systems, Designing Information Devices and Systems, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Multivariable Calculus

Skills and Tools

Proficient: Java, Python, C, SQL

Familiar: JavaScript, JQuery, HTML, CSS, LaTeX, Scheme, Git, Unix

Certifications: University of Michigan Coursera Certificates: Using Databases with Python (July 2018); Using Python to Access Web Data (July 2018), Python Data Structures (July 2018)

Experience

CS 61A Software Team   January 2019–Present

Developer intern. Work with team to fix various software issues in computer software used by the CS 61A course. Made several updates to the OH Queue website. Improved some computations of data/statistics.

CS 61A Lab Assistant and Academic Intern   January 2019–May 2019

Lab assistant for CS 61A. Worked in lab and hosted office hours to guide student understanding of programming concepts taught in CS 61A.

Projects

Random World Generator - BYOW   April 2019

Worked on project with classmate. Generates unique 2-D world of hallways and rooms based on numerical input.

BearMaps   April 2019

Built interactive map application of city of Berkeley consisting of routing and zoom functions. Has autocomplete enabled in search bar through implementation of trie data structure. Determines location closest to inputted latitude/longitude through efficiently traversing KD Tree data structure. Used A* and Dijkstra's algorithms to find shortest routes from starting point to destination.

Maps   September 2018

Visualization of predicted restaurant ratings on a map created using machine learning algorithms such as k-means clustering and a supervised learning algorithm.

Awards/Honors

Dean's Honors List   January 2019

The Dean's Honors List recognizes outstanding academic achievement each semester.

The Leadership Award   August 2018

Scholarship given to undergraduates for innovative, impactful, and initiative-driven leadership in their school and communities.