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UC BERKELEY

B.A. Computer Science

Class of 2020

COURSEWORK

Data Structures & Algorithms (CS61B)

Machine Structures (CS61C)

Discrete Math & Probability Theory (CS70)

Designing Information Devices & Systems (EE16A)

EXPERIENCE

Fall 2017 **Computer Science Undergraduate Student Instructor (UGSI) | UC Berkeley, CS61A**

- » Leading a group of 30+ students weekly in problem-based discussion and hands-on lab sections
- » Providing mini-lectures and conceptual support for students in section and office hours

Summer 2017 **Computer Science Tutor | UC Berkeley, CS61A**

- » Mentors 3 groups of students throughout the semester, and provides individual conceptual tutoring
- » Strengthens students' Python, Scheme, and SQL foundations

Summer 2016 **Software Developer Intern | Infinera Corporation**

- » Designed and implemented 2 Excel programs to automate data extraction for Finance dept.
- » Environment: Excel's Visual Basic Editor

PROJECTS

Spring 2017 **BearMaps (Java)**

- » Programmed the backend of an interactive, fully-functioning maps/locationing web server
- » Implemented shortest path algorithms (A*) to allow for efficient routing feedback, as well as Trie trees for name-search autocomplete capabilities
- » Heavily used quadtree recursion for image/map rasterization (which supports zooming)
- » Read in real-life data from Open Street Map datasets to construct underlying graph database

Spring 2017 **Relational Database Management System (Java)**

- » Coded backend database structure for a SQL-like, declarative language
- » Supported database queries with parsed in table files, such as: natural inner joins, filtering clauses, and arithmetic/special value (ex. NaN, NOVALUE) computation and comparisons

Spring 2017 **Double Ended Queue Data Structure (Java)**

- » Wrote two implementations for "Double Ended Queues" using LinkedList and arrays Implemented methods to get/remove/add item at relative index, and a resize method array for optimal memory usage & runtime

INVOLVEMENTS

2017 – now **Associated Student of University of California | Director of Engineering, Office of Adnan Hemani**

- » Serves as a liaison between the student body, department, and office.
- » Leads and organize all teams and interns within the Engineering department
- » Execute projects to increase the engagement of the student body with departmental issues and affairs.

2016 – now **Computer Science Kickstart | Industrial Relations team**

- » Reaching out to various tech companies for partnership opportunities (i.e. panels, infosessions for students)
- » Organizing annual summer program for underprivileged incoming, CS-interested Berkeley students

2016 – now **Cognitive Science Student Association | University Relations**

- » Contacting department heads for departmental improvements/changes
- » Compiling information to improve Berkeley's Cognitive Science website

SKILLS

Java • Python • Scheme • HTML/CSS • Adobe Photoshop • Adobe Illustrator