Eun Woo Jee

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Recent graduate of UC Berkeley with B.A. in Applied Mathematics Concentrated in Computer Science looking for job opportunities as a Software Engineer.

Professional Experience

BDP International, Philadelphia, PA

Business Intelligence Intern(IT Service Team), June 2018 - August 2018

- Designed, developed, and maintained business intelligence solutions
- Developed and executed database queries
- Created new jobs in SQL server to improve the performance and reliability of the old system
- Set up a data retention policy within the SQL server database processing tables and a monthly data purge process (Improved and developed the trigger alert process for shipping and freight invoice)

Education

University of California, Berkeley, Berkeley, CA

Bachelor of Arts in Applied Mathematics Concentrated in Computer Science, May 2020

- Relevant Coursework: **CS61A**: Structure & Interpretation of Computer Programs, **CS61B** : Data Structures, **CS170**: Efficient Algorithms & Intractable Problems, **CS162**: Operating Systems & Systems Programming, **CS188**: Intro to Artificial Intelligence, **Math128A**: Numerical Analysis, **Math110**: Linear Algebra, **Math113**: Abstract Algebra, **Math104**: Real Analysis, **Math185**: Complex Analysis

Highlighted Projects

Build Your Own World : Spring 2018

CS61B : Data Structures - UC Berkeley

- Designed and implemented a 2D tile-based world exploration engine using Java
- Generated a random world by making rooms of various sizes and then connecting them with hallways, in which the user can explore by pressing arrow buttons and interact with objects in the world
- Focused on large scale design with a lot of flexibility on implementation and freedom on which data structures could be used

Bear Maps : Spring 2018

CS61B : Data Structures - UC Berkeley

- Bear Maps is a web mapping application that finds the shortest route between two points on the map which supports turn-by-turn directions, auto-complete, and location search
- Implemented the back-end features for Bear Maps using various data structures learned in class such as extrinsic priority queue and KdTree
- Combined all pieces into a web-browser application

Drop the TAs Home: Fall 2019

CS170 : Efficient Algorithms - UC Berkeley

- Came up with an algorithm for a setting very similar to Metric Traveling Salesman problem
- Goal was to decide the route and specific drop off locations for all the TAs to minimize the energy used by the driver and passengers combined
- Combined K-Cluster algorithm and 2-Times-Approximation algorithm for Metric TSP Problem

Pintos Operating System: Spring 2020

CS162: Operating System - UC Berkeley

- Given the basic skeleton codes provided by the course staff, improved its limitations in User Programs, Scheduling, and File Systems
- Restructured basic system calls for the operating system, argument parsing, and process control procedures
- Implemented effective alarm clock to support priority scheduler that supports priority donation
- Developed a fully associative cache with a Least Recently Used(LRU) policy based on the last access time
- Devised the file structure used in the UNIX FFS to support extending a file and subdirectories

Skills

- Languages: Python, Java, C, SQL, Matlab, R, HTML, CSS, JavaScript

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