Eun Woo Jee

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EDUCATION

University of California, Berkeley, CA   **May 2020**
Bachelor of Arts in Applied Mathematics Concentrated in Computer Science

Relevant Coursework: CS 61A:Structure & Interpretation of Computer Programs (**Python, SQL**),**CS 61B**:Data Structures (**Java**), **CS 170**:Efficient Algorithms & Intractable Problems, **CS162**:Operating Systems & Systems Programming, **CS 188:** Intro to Artificial Intelligence, **CS189:** Intro to Machine Learning, **Math128A:** Numerical Analysis(MatLab), **Math110**: Linear Algebra, **Math113**: Abstract Algebra, **Math104**: Real Analysis, **Math185**: Complex Analysis

SKILLS

Languages:Advanced: Python, Java, Proficient: C, SQL, MATLAB, R

HIGHLIGHTED PROJECTS & EXPERIENCE

BDP International   **June - Aug 2019**
                                                                                                                  Philadelphia, PA
Business Intelligence Intern, IT Service Team
- Designed, developed, and maintained business intelligence solutions
- Developed and executed database queries
- Created new jobs in SQL server to improve the performance and reliability from the old system
- Set up a data retention policy within the SQL server database processing tables and standing up a monthly data purge process – Improved and developed the trigger alert process for shipping and fright invoices

Build Your Own World : Spring 2018
CS 61B: Data Structures - UC Berkeley
- Designed and implemented a 2D tile-based world exploration engine using Java
- Built a random world by making rooms of various sizes and then connecting them with hallways, in which the user can explore by walking around and interacting with objects in that world
- Focused on large scale design with a lot of flexibility on implementation and freedom on which data structures could be used

Bear Maps
CS 61B: Data Structures - UC Berkeley
- Implemented the back end features for an application very similar to Google Maps but only for the city of Berkeley using various data structures learned in class such as extrinsic priority queue and KdTree
- 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.
- Combined all pieces into a web-browser mapping application called BearMaps.

Drop the TAs Home : Fall 2019
CS170: Efficient Algorithms – UC Berkeley
- Designed and implemented an algorithm for a problem very similar to Metric Traveling Salesman Problem settings
- Was asked to come up with an efficient algorithm for deciding the route and specific locations to drop off all the TAs so the energy used by the driver and the TAs combined could be minimized
- 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
- Implemented 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
- Implemented a fully associative cache with a least recently used (LRU) policy based on the last access time
- Implemented the file structure used in the UNIX FFS to support extending a file and subdirectories

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