Sean Lobo

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github.com/seanlobo

Education

University of California, Berkeley – GPA: 3.883 **Aug 2015 - Present**

- Intended B.S. in Electrical Engineering and Computer Science, expected graduation May 2019
- Relevant Course Work: CS61B (Data Structures), CS61C (Computer Architecture), CS188 (Artificial Intelligence), CS70 (Discrete Math and Probability Theory)

Projects

Facebook Message Mining (Personal project) **Dec 2015 - Present**

A data analysis and visualization of individual's Facebook messaging history:

- Parsed and analyzed aggregate Facebook messager data, with queryable data such as word frequencies, regex searching of conversations, and emoji analysis
- Visualized user data on a web browser, with personalized graphs and charts
- Generated beautiful and customizable word clouds for Facebook conversations

Technologies used: Python (*BeautifulSoup, Flask + Jinja, Colorama),* Java (*Kumo),* Javascript (*HighCharts, jQuery),* CSS (*Bootstrap)* || *github.com/seanlobo/fb-msg-mining*

Bear Maps (Course Project) **Mar 2016 – April 2016**

A browser based maps service for the surrounding UC Berkeley area:

- Efficiently rastered images of the surrounding Berkeley area as maps, utilizing efficient data structures such as QuadTrees, HashSets and Priority Queues
- Utilized OSM data to construct a graph of paths for the Berkeley Area
- Implemented an A* algorithm to calculate the shortest path between any two locations

Technologies used: Maven, Java, OSM Data

Editor (Course Project) **Feb 2016 – Mar 2016**

A cross-platform minimalist text editor:

- Utilized efficient data structures for constant time character insertion and deletion
- A feature set including arrow key and cursor movement, opening and saving of files

Technologies used: Java (*JavaFX)*

Work Experience

Course Tutor: CS61A **Aug 2016 – Present**

- Hold office hours and small group tutoring for struggling students
- Collaborate with course staff to effectively teach, run and manage intro class of over 1,600

J. Craig Venter Institute **June 2014 – Aug 2014**

- Designed curricula for high school students in the field of Computational Biology
- Implemented solutions to the Longest Common Substring and Subsequence problems as intermediate steps to a DNA alignment algorithm

Research

L.B. Stanza Programming Language Development **Sep 2015 – Jun 2016**

- Wrote benchmarks and provided feedback on developer documentation
- Collaborated in creation of language's website: lbstanza.org

Technical Skills

Languages/ technologies: Java (experienced), Python (experienced), JavaScript (working knowledge), C (working knowledge), HTML/ CSS (working knowledge), SQL (prior experience)