

Sean Lobo

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Education

University of California, Berkeley

Aug 2015 - Present

- Regents and Chancellor's Scholar
- Pursuing a B.S. in Electrical Engineering and Computer Science
- Expected graduation May 2019

Projects

Facebook Message Mining (Personal project)

Dec 2015 - Present

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

- Parse and analyze aggregate Facebook message data, with queryable data such as word frequencies, regex searching of conversations, and emoji analysis as examples
- Elegantly visualize user data on a web browser, with personalized graphs and charts
- Generate 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 raster images of the surrounding Berkeley area as maps, utilizing efficient data structures such as QuadTrees, HashSets and Priority Queues
- Utilize OSM data to construct a graph of paths for the Berkeley Area
- Implement 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:

- Utilize 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

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 Development

Sep 2015 - Present

- Worked with UC Berkeley Graduate Patrick Li to develop the new functional programming language L.B. Stanza
- 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), HTML/ CSS (working knowledge), SQL (prior experience)