JUNG YUN (JOSEPHINE) RHEE

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EDUCATION

University of California, Berkeley

B.A. Cognitive Science | Minor Computer Science

- **Graduated**: December 2017
- **Relevant Coursework**:

Data Structures and Programming Methodology
Efficient Algorithms and Intractable Problems
Interactive Data Visualization
Artificial Intelligence
Data Science
Computer Architecture

PROJECTS

Gitlet

Java

- Designed and developed from scratch a simpler version-control system that mimics the basic features of Git, such as add, commit, remove, checkout, branch, merge, reset, and log
- System saves/restores files and manipulates branches on the computer via the command line
- Tested using JUnit

Sliding Blocks Puzzle and Solver

Java

- Implemented a puzzle board and game pieces using 2D ArrayList, HashSet, and other data structures
- Created a heuristic algorithm to solve the game by prioritizing optimal paths based on possible puzzle positions through stacks and priority queues in order to optimize runtime

Yelp Maps

Python

- Used machine learning and Yelp's academic dataset to create a visualization of restaurant ratings in Berkeley
- Utilized k-means algorithm to group restaurants into clusters
- Implemented a simple least-squares linear regression to predict user's future ratings based on past user data

Twitter Analysis: Twitter and Text

Python, NumPy, Pandas, Seaborn

- Filtered and analyzed tweets from the Twitter API by creating Pandas data frames and manipulating the rows and columns
- Calculated the sentiment of a tweet using the VADER lexicon and created graphs comparing sentiments to time of year and source of tweets

EXPERIENCE

Academic Intern

January 2017 – May 2017

CS61B (Data Structures), UC Berkeley

- Explained concepts, such as OOP, hashing, sorts, trees, and graphs, to over 80 students
- Reviewed examples presented during lectures/discussions and helped debug projects, labs, and homework

SKILLS

Programming: Python, Java, JavaScript, HTML/CSS, C
Miscellaneous: D3.js, Git, UNIX, CSV, JSON, LaTeX, NumPy, Pandas, Seaborn
Languages: English (fluent), Korean (fluent)