

Jeffrey Parker Burr

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EDUCATION

University of California, Berkeley | Berkeley, CA August 2016 – Present

Major: B. A. Applied Mathematics | **Minor:** Computer Science GPA: 3.3

Relevant Coursework: Data Structures and Advanced Programming, Structure of Computer Programs, Multivariable Calculus, Linear Algebra, Discrete Mathematics/Probability Theory, Concepts of Probability, Concepts in Computing with Data

Mira Costa High School | Manhattan Beach, CA August 2012 – Present

- Summa Cum Laude (Top 5%), Principal's Honors, National Honor Society GPA: 4.6

EXPERIENCE

UC Berkeley Involvement | Berkeley, CA August 2016 – Present

- Member, Berkeley Investment Group
- Member, Mathematics Undergraduate Student Association

Special Olympics Southern California | Los Angeles, CA June – July 2017

Workforce Management Team

- Delegated volunteers to various positions and oversaw the general management of the games
- Ensured that the tournament schedule was organized and facilitated properly
- Worked part-time in the merchandise store during the World Games (2016)

Kappa Alpha Order | Berkeley, CA November 2017 – Present

Recording Secretary

- Plan and coordinate events including meetings and social gatherings with other organizations

SOFTWARE PROJECTS

Personalized Restaurant Map April 2017

- Visual map of restaurants in Berkeley, CA made in Python that groups restaurants by clusters
- Uses a least-squares linear regression to predicts future ratings of unvisited restaurants (based on ratings of similar restaurants)

Relational Database Management System October 2017

- Java program that stores data tables and using a query language (like SQL) for extracting information from the tables

Alquerque (Grid-based Board Game) November 2017

- Designed a strategic two player board game with accompanying GUI in Java
- Created an artificial intelligence player that uses a minimax decision making strategy with alpha-beta pruning

Version Control System December 2017

- Developed a version of Git in Java that can save, store, and merge collections of files
 - Implements a cryptographic hash function, SHA-1 (Secure Hash 1), to distinguish between files
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SKILLS

- Computer Languages: Java, Python, HTML, CSS, SQL, Scheme, R, Tableau
- Microsoft Office (Word, Excel, PowerPoint)
- French (limited working proficiency)