

# Jeffrey Parker Burr

jeffburr97@gmail.com • (310)-809-1621

**Personal Website:** jeffburr.github.io **LinkedIn:** <https://www.linkedin.com/in/jeffreypburr/>

## SUMMARY

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I'm a motivated data scientist with exemplary communication skills who excels at problem solving in a productive and organized manner. I'm looking for a dynamic and analytical role in which I can develop efficient algorithms and bring new ideas that create meaningful impacts at the company I work for.

## EDUCATION

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**University of California, Berkeley** | Berkeley, CA

August 2016 – May 2020

*Double Major - B. A. Applied Mathematics, B. A. Data Science*

- Relevant Coursework: Data Structures and Advanced Programming, Linear Algebra, Discrete Mathematics, Concepts of Probability, Artificial Intelligence, Principles of Data Science, Financial Econ, Multivariable Calculus, Time Series, Decision Analytics, Data Inference

## SOFTWARE PROJECTS

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**Fantasy Premier League Predictor** | Java/Python

- Created a model that uses ML regression analysis on FPL API/web scraped data to predict player points and guide optimal team selection
- Average model prediction error using mean absolute error (MAE) is less than one fantasy point
- Built an accompanying Java Swing GUI that allows users to login, save their player choices, and receive tailored advice on player transfers based on their current selections and model output
- Confidential user data stored in MySQL is salted and hashed with SHA-256 to ensure security and program integrity, with an option to recover a forgotten password with security questions

**NYC Taxi Ride Predictor** | Python

- Explored and cleaned NYC taxi data to create a multiple regression model with ridge regularization to predict the duration of taxi rides
- Model achieved an average duration error of roughly 2 minutes per taxi ride using MAE

**Database Management System (DBMS)** | Java

- Constructed a relational DBMS that uses SQL commands to create and store data tables offline
- Incorporates conditional clauses for users to manipulate and extract specific subsets of the tables

**Gitlet (Version-control System)** | Java

- Developed a limited version of Git where users can save, store, and merge file collections offline
- Accounted for user error by including backup history and the ability to restore previous commits

**Restaurant Map** | Python

- Built a map of Berkeley restaurants ranked by Yelp rating and grouped with k-means clustering
- Program uses least-squares regression to predict personal ratings of unvisited restaurants

## EXPERIENCE

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**Mammoth Mountain Ski School** | Mammoth Lakes, CA

December 2018 – February 2019

*Ski Instructor*

- Responsible for the athletic development and safety of Mammoth's clientele of all ages
- Part-time rental technician required to be knowledgeable about ski fitting, repair, and tuning

## SKILLS

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- **Core Toolkit:** Python, Java, HTML, CSS, R, SQL, AI Search/Decision Algorithms, Matplotlib
- **Programming Operational Knowledge:** TensorFlow, MySQL, C++, Bash, Tableau, Ruby