Jorge Camarena

Software Developer | Student @ UC Berkeley

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PROFILE

Recent UC Berkeley Grad with a B.A. in Data Science and a concentration in Applied Mathematics & Modeling. Ambitious and versatile developer seeking a full-time job / internship in a software-engineering role involving data-driven and impactful projects.

EDUCATION

University of California, Berkeley
Berkeley, CA | 2016 - 2020
B.A. Data Science

COURSEWORK

- CS 61A - Computer Program Structures and Interpretations
- CS 61B - Data Structures and Objected-Oriented Programming
- CS C100 - Principles and Techniques of Data Science
- CS 161 - Computer Security
- CS 188 - Introduction to Artificial Intelligence
- STAT 102 - Data, Inference, & Decisions
- STAT 140 - Statistical Probability for Data Science
- MATH 55 - Discrete Mathematics and Probability Theory
- MATH 110 - Linear Algebra
- MATH 128A - Numerical Analysis

TECHNICAL SKILLS

Programming Languages

Python, Java, MatLab, C/C++, Bash Shell, GoLang, SQL, HTML, CSS, JavaScript

Frameworks and Technologies

Git, NumPy, Pandas, Scikit-learn, SciPy, MatPlotLib, GraphQL, MySQL, SQLite, Torch, React.js, Node.js, express.js, jQuery, Bootstrap, Django, Ruby on Rails, etc.

PROJECTS

PacMan Reinforcement Learning · **Python** · 2020

- Utilized methods and algorithms such as policy iteration, policy extraction, value iteration and Q-Learning to train a PacMan agent to optimize the actions it takes to win the game.

Encrypted File Sharing System · **GoLang** · 2019

- Designed the client and server of a secure file sharing system that allows user to create, append, share files with other users, and revoke access previously granted.
- The underlying encryption is proven to be robust against a variety of attacks.

Stock Manager & Simulator · **Node.js | Python** · **2021**

- Built a simplistic version of google finance that allows users to manage a number of stock portfolios and keep track of their financial reports.
- Utilized various frameworks and technologies such as Node.js, React.js, Graph.js, MongoDB, Yahoo Finance API, among many others for core functionality.
- Integrated a portfolio performance simulator that allows users to test different trading strategies.

Bear Maps · **Java** · 2019

- Built a simplistic form of Google Maps for the city of Berkeley, CA.
- Supports map rastering with the appropriate image resolution based on window size of browser.
- Supports routing: given a source and destination, gives detailed instructions on how to get there in the shortest route possible.
- Implemented using A* search algorithm, along with the appropriate data structures (such as min-heap priority queue, kd-trees, etc) for computational efficiency.

Full Stack Twitter Clone · **Node.js** · 2021

- Built a fully functional Twitter Clone web app that supports secure login and signup, tweeting, upvoting, commenting, adding friends, as well as other fun features.
- Used HTML, CSS, Javascript, and bootstrap for front-end user experience.
- Used Node.js, Express.js, MondoDB, and many other frameworks to build the back-end API.