Jorge Camarena

Software Developer | Student @ UC Berkeley

+1 510.904.2828 jorgec2015@berkeley.edu github.com/jorge-camarena linkedin.com/in/jorge-camarena

PROFILE

Graduating senior majoring in Data Science with 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
- CS C100 - Principles and Techniques of Data Science
- CS 161 - Computer Security
- CS 188 - Introduction to Artificial Intelligence
- STAT 140 - Statistical Probability
- MATH 55 - Discrete Mathematics and Probability Theory
- MATH 110 - Linear Algebra

TECHNICAL SKILLS

Programming Languages

Python, Java, MatLab, 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, and more

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 of a secure file sharing system that allows user to create, append, share files with other users, and revoke access previously granted.
- The file sharing system was implemented to support the following security guarantees: confidentiality, authenticity, and integrity.
- The underlying encryption is proven to be robust against a variety of attacks (under the assumption that the data-storage servers are untrusted and potentially “malicious”)

Scheme Interpreter · **Python** · 2018

- Built an interpreter for the programming language scheme
- Specifically designed to parse, provide core functionality, allow for user-defined procedures, and special form operators.

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