

# Jose Jasso Jr.

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## EDUCATION

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University of California, Berkeley | B.S. in Electrical Engineering and Computer Science (EECS) May 2020

- *President*, Gamma Zeta Alpha Fraternity, Inc.; *Volunteer*, The Berkeley Project

## HIGHLIGHTED PROJECTS

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### Don't Be A Fool, Use The Right Tool!

April 2020 - May 2020

- Utilized Pandas and Numpy to perform exploratory data analysis of datasets about contraceptive usage to develop a model that is able to predict which contraceptive method may be used by a woman based on socio economic characteristics and create a report on it
- Implemented a variety of plots in order to execute exploratory data analysis including correlation plots, joint plots, bar graphs, and histograms.

### Secure File Storage Project

July 2019

- Utilized Golang and the Google UUID library to design a secure 'Dropbox-like' file store client able to store/load files and share files with other users safely
- Implemented symmetric RSA encryption/decryption, AES-CBC encryption/decryption, and HMACs to provide confidentiality and integrity when initializing a user, storing/retrieving files, and sharing/revoking sharing privileges with users for files

### Guavabot

April 2019

- Utilized Python3 and the networkx, random, and math python packages to program a solver to calculate the most cost effective way to locate and send home 5 'guavabots' that have been lost in a city with 100 nodes and either 10, 20, or 40 students to help locate them
- Applied graph algorithms including Dijkstra's and Minimum Spanning Tree to find the most efficient routes to send the located bots home by not having to walk through the same roads (edges) multiple times
- Calculated the credibility of students helping by utilizing the Multiplicative Weights Algorithm and using those weights to determine the next location to search for the bots

## EXPERIENCE

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### Tech Consulting

May 2021

LENUSA Inc. | Mexico City, Mexico

- Assisted in developing IT visions and strategies by joining in meetings with technology companies in Mexico City, while also offering technical advice

## COMPUTER SCIENCE SKILLS

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Python, Java, React, Javascript, NodeJS/Express, SQL, MongoDB/Mongoose, Golang, Git/Github, Pandas, HTML, CSS

## COMPUTER SCIENCE COURSES

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**DATA100:** Principles and Techniques of Data Science (Numpy, Pandas), **CS186:** Introduction to Database Systems (SQL, Java), **CS162:** Operating Systems and Systems Programming (C), **CS161:** Computer Security (C, Golang, SQL, Javascript, HTML), **CS70:** Discrete Math and Probability, **CS170:** Efficient Algorithms and Intractable Problems (Java), **CS61B:** Data Structures (Java), **CS61A:** Structure and Interpretation of Computer Programs (Python, Scheme)