MARIO AGBAN

661.877.1621 • Berkeley, CA • mario.agban@berkeley.edu • linkedin.com/in/mario-agban • github.com/mario-agban

EDUCATION

University of California Berkeley | GPA: 3.4 | B.S Applied Mathematics and Data Science 2018 - 2022

- Mathematics Undergraduate Student Association, Financial Advisor
- Relevant Coursework: Principles and Techniques of Data Science, Structure and Interpretation of Computer Programs, Data Structures, Concepts of Probability

SKILLS

- **Languages**: Python, SQL, R, Linux Shell, HTML, XML, Regex, JavaScript
- **Databases:** PostgreSQL, MySQL Workbench
- **Apps:** Tableau,Power BI, Git, Interactive Data Visualization, Bash, Jupyter
- **Packages:** Ggplot, Pandas, Seaborn, Matplotlib, NumPy, Sci-Kit Learn, TensorFlow, Pytorch, Ploty, Scipy
- **Skills:** Hypothesis Testing, A/B Testing, Relational DB, Data Cleaning/Manipulation, Confidence Intervals, Bootstrap, Modeling

EXPERIENCE

Coding and Web Development Instructor August 2022 - Now

CodeCampus | Summit High School District, Bay Area

Data Analyst Intern April 2022 - July 2022

Lead Researcher Dr. Alessandro Selvitella | Project | Purdue University, Indiana

- Analyzed and cleaned COVID-19 case data and Foursquare location data using Python and Pandas/NumPy
- Visualized infection rates and machine learning-generated clusters via interactive maps created with Matplotlib
- Algorithmically scored locations based on infection rates and ranked by contribution to coronavirus cases

Data Analyst Intern Sep 2021 - Dec 2021

LEED Green Building Council | Project | Metro Area, Washington D.C.

- Migrated 38% of the company data from Yellowfin to Power BI
- Inspected data to derive insights and identified correlations and patterns to apply statistical methods to analyze data in MySQL Workbench
- Developed reports and dashboards the business stakeholders, APPs, programers, and analysts to pull from the enterprise data repository

Data Analyst Intern June 2021 - Sep. 2021

CarpeMed Travel | Project | San Francisco, CA

- Extracted, scraped, cleaned, and analyzed raw tabular data from hospitals in csv and json formats
- Designed pipelines to automate extraction, transformation, and loading of data into repositories of new medical data for heat map visualizations

PROJECTS

Meta-analysis of Hydroxychloroquine Case Study May. 2020 - July 2020

Data Science Research Thesis | Project | UC Berkeley, CA

- Analyzed randomized and observational studies of hydroxy to determine its effectiveness in the treatment of positive COVID-19 patients
- Programmed an algorithm using iPython that investigates the claims of several medical testing labs, accounting for contextual information about each study and summarizing the findings into one recommendation

Auto Correct Typing Software Sep 2020

Programming Project | Project | View GUI | Structure and Interpretation of Computer Programs

- Created a program that measures a user's typing speed by implementing multiple functions that computed the words per minute given a string typed and the amount of elapsed time in seconds
- Attained an accuracy of 97.3% and precision of 95.3%
- Allowed for multiplayer functionality by developing a GUI that maintains accuracy through requesting progress updates