Emmanuel Cobian Duarte

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EDUCATION

University of California, Berkeley August 2020 - May 2024
Bachelor of Arts in Computer Science, GPA: 3.8

Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Introduction to Artificial Intelligence, Introduction to Machine Learning, Principles and Techniques of Data Science, Introduction to Database Systems, Programming Languages and Compilers, Machine Structures, Discrete Math and Probability

SKILLS

Programming Languages: Python, JavaScript, SQL, Go, Java, C++, C, OCaml, RISC-V
Technologies: React.js, Next.js, MySQL, Bootstrap, Pandas, PyTorch, Numpy, MongoDB, OpenMP, SIMD
Languages: Fluent reading, writing, and speaking in Spanish and English

PROFESSIONAL EXPERIENCE

UC Berkeley Haas School of Business May 2023 - May 2024
Software Development Fellow

- Developed a Next.js based web application that efficiently enables users to create personalized teams according to their unique needs. As a result, the time it took to complete this task was reduced by over 400 times.
- Built an approximation algorithm to generate optimally balanced teams based on user-defined priorities across team size, gender, experience levels, and work history.

Rate My Classes December 2023
Personal Project

- Lead the developemnt of a full stack web application powered by Next.js and MySQL that lets UC Berkeley students rate and review their classes.
- Developed an express.js server to handle API requests and a MySQL database to store user data like login information, reviews, and ratings.

The Green Janitorial Corporation June 2023 - July 2023
Website Developer

- Created and implemented a responsive website for The Green Janitorial using Next.js and Bootstrap. Website: www.thegreenjanitorial.com
- Designed a fast, SEO-friendly site for search engines and speed.

Exposify June 2023
Personal Project

- Built a full stack web application called Exposify using Next.js that connects to the Spotify API and analyzes a user's top artists and playlists to provide personalized music insights. Website: exposify.vercel.app.com
- Created a backend server using Next.js API routes to call Spotify API and process data to generate musical profiles and analysis for logged-in users.

UC Berkeley Career Center September 2021 - May 2023
Tech Fellow

- Designed and implemented a Python script to scrape content from over 1000 employer websites to search for DEI Employment keywords.
- Parsed, analyzed, and visualized data sets with over 200,000 data points using the pandas library in Python to provide tangible and understandable solutions to an audience of team members with limited technical knowledge.

Meta March 2022 - September 2022
Data Challenge Finalist

- Explored, analyzed, and aggregated large data sets utilizing Python to provide actionable information, and create intuitive visualizations to convey those results to a broad audience.
- Presented a data-driven product pitch, which included data visualizations, business strategy, and recommendations to Data Scientists and Data Engineers.