JEREMY TARABA

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EXPERIENCE

Founder & Software Engineer | Jeremiso – *Yorba Linda, CA*   02/2024 - Present
- Solo developed cross-platform apps in Flutter garnering 200k+ downloads and 30k+ active users.
- Integrated multiple APIs including Tweepy, CoinGecko, and OpenMeteo. Utilized Google Cloud Platform to handle requests securely and Firebase to track analytics.
- Responded to user feedback from reviews and emails to improve user experience.

Programming Instructor | Coding Minds – *Irvine, CA*   09/2021 - Present
- Instructed classes with students ranging from elementary to college in different subjects like Java, Python, Mobile development, Web development, Artificial Intelligence, Robotics, and USACO.
- Designed and proposed 2 new curriculums, a Lego Robotics course and a Minecraft Makecode course.
- Managed projects for submission in college applications, hackathons, and coding competitions.

Summer School Programming Teacher | IPSF – *Irvine, CA*   06/2022 - 08/2024
- Instructed Python and Unity summer courses of up to 24 students per class across multiple schools.
- Created my own curriculums for short term learning tailored toward younger students. Complete with quizzes, assignments, and presentations.
- Developed a Python program to automate assignment grading, saving up to 2 hours daily and providing students with real-world programming applications.

PROJECTS

Real Color   07/2024 - 09/2024
- Developed a Flutter mobile game challenging users to take daily photos matching a designated color.
- Integrated RevenueCat SDK for in-app purchases and AdMob to run Google ad services.
- Built image recognition algorithms using Kaggle datasets and TensorFlow.

AI Drink Tracking App   09/2023 - 02/2024
- Collaborated with a team of 3 to develop a Flutter app to help users track their alcohol intake.
- Integrated image recognition AI using TensorFlow to determine the type of drink for easy logging and used Firebase cloud analytics for personalized insight.
- Published a research paper on Aircc detailing the process and effects as it pertains to alcoholism.

Cryptocurrency Predictor   10/2023 - 12/2023
- Worked with a team of 4 to create a Python program for predicting the 24-hour price of crypto.
- Utilized CoinGecko's API to collect data on 200+ coins and Tweepy to collect 20,000+ tweets for real-time sentiment analysis using the NLTK and TextBlob libraries.
- Used a regression algorithm from the Scikit-learn library for a model with 62% accuracy.

Bank Simulation   07/2023 - 10/2023
- Solo developed a local Java application simulating online banking using JavaFX.
- Implemented captcha protection and password encryption on accounts using SHA-256
- Implemented features such as account creation, management, and transaction processing to replicate real-world banking operations within the simulation.

EDUCATION

University of California, Riverside   09/2017 - 03/2021
Bachelor of Science in Computer Science

SKILLS

Languages: Python, Dart, Java, C++, HTML, JavaScript, C#, SQL
Tools: Git, Firebase, TravisCI, Unity, Figma, Google Cloud Platform, Teachable Machine, Kaggle
Frameworks & APIs: Flutter, Flask, RevenueCat, Tweepy, CoinGecko, OpenMeteo, .NET
Libraries: Pandas, NumPy, NLTK, TextBlob, Scikit-learn, TensorFlow, Plotly