JEREMY TARABA

jeremytaraba@gmail.com | jeremytaraba.github.io | Yorba Linda, CA

EXPERIENCE

Programming Instructor / Coding Minds – Irvine, CA   09/2021 - Present
- Instructed classes with students ranging from elementary to college in different programming subjects like Java and Python.
- Designed and proposed new curriculums and updated old curriculums for use by other instructors.
- Managed software projects for submission in college applications and coding competitions.

Summer School Programming Teacher / Irvine Public School Foundation – Irvine, CA   06/2022 - Present
- Instructed Python and Unity summer classes at middle schools around Irvine.
- Created my own curriculums for short term learning tailored toward middle schoolers. Complete with quizzes, assignments, and presentations.
- Developed a Python program to automate grading of my students' assignments, saving manual hours and inspiring my students with real life examples of programming.

PROJECTS

Real Color   07/2024 - 09/2024
- Solo developed a Flutter mobile app for an online hackathon. Created all image assets and videos.
- Integrated RevenueCat SDK for in-app purchases and AdMob to run Google ad services.
- Used datasets from Kaggle and image recognition algorithms to grab color from pictures.

Froggy Weather   02/2024 - 05/2024
- Solo developed and launched a cross-platform weather app in Flutter that has 50k downloads.
- Integrated OpenWeatherMap API to provide accurate weather data. Utilized Google Cloud Platform to handle requests securely and used Firebase to track analytics.
- Responded to user feedback through reviews and emails to improve user experience.

AI Drink Tracking App   09/2023 - 02/2024
- Collaborated with a team of 3 to develop a monitoring 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.
- Created a research paper detailing the methodology and purpose as it pertains to alcoholism.

Cryptocurrency Predictor   10/2023 - 12/2023
- Worked with a team of 4 to create a program for predicting the 24-hour price of cryptocurrency.
- 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 to create a machine learning model.

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   **Graduated:** 2021
Bachelor of Science: Computer Science

SKILLS

Relevant Skills: (Proficient) C++, Java, Python, Flutter   (Familiar) HTML, CSS, JavaScript, C#
Tools: Git, Firebase, Markdown, Unity, Figma, TensorFlow, Teachable Machine, Kaggle
APIs: OpenWeather, OpenMeteo, CoinGecko, RevenueCat