

# JEREMY TARABA

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## 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.
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## 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.
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## 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