Bryan Ramirez-Gonzalez

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EDUCATION

University of Southern California (USC): Class of 2028   **Los Angeles, CA | AUG 2024 - PRESENT**
- Major: Computer Science, Dean's Scholar – McCarthy Honors Residential College

Citrus College (Dual Enrollment)   **Glendora, CA | JAN 2021 – JUN 2024**
- **Coursework:** CS 112 Python, CS 225 C++ Object Orientated Programing, DRAF 101 Mechanical Drawing, ITIS 168 WordPress, NC 686 Communication Skills in Workplace

EXPERIENCE

USC ISI Fall Undergraduate Research Fellow - (USC CURVE)   **Los Angeles | AUG 2024 – PRESENT**
- Responsibilities: Data Collection/Analysis/Visualization, Machine Learning Model Development, Report Writing.
- Fall Research Fellow in Professor Emilio Ferrara Election Integrity Initiative Research (**HUMANS Lab**).

Headstarter AI Software Engineering Fellowship   **Remote | JUL 2024 – PRESENT**
- Constructing 5 AI projects through HTML & CSS, React, NextJS, Firebase, and API's.
- Launching a capstone project with the goal of acquiring 1,000+ users.

Jane Street UNBOXED 2024   **New York, NY| JUL 2024 – JUL 2024**
- Introduction to statistics, probability, programming, and analytical problem-solving at Jane Street New York.
- Two Weeks Virtually & One Week In-Person translating the foundations of mathematics to the financial markets, writing code to analyze data, and exploring business case studies.

Undergraduate Summer Researcher (USC VSI Program)   **Los Angeles, CA| JUL 2024 – AUG 2024**
- Researching how to improve OpenAI's CLIP Model to detect more frequent misinformation through false text-image pairs.
- Building a dataset to allow the Model to learn patterns in more challenging pairs through the use of PyTorch and LLMs.
- Summer Research Fellow in Professor Yan Liu's Melady Lab.

theCoderSchool Pasadena - Summer Intern, Tutor   **Pasadena, CA | JUN 2022 – JUN 2022**
- 60 Hour Internship coaching K12 students programming languages and skills.
- Educated in Technical Languages such as Scratch, Arduino, Python, Lua (Roblox), and Artificial Intelligence.

LEADERSHIP/ACTIVITIES   *Projects Available at github.com/bryanrg22*

- **eduTrade – UPenn's Hackathon 2024 Full-Stack Project**
    - AI-powered WebApp using Python, Flask, and React, that employs quadratic optimization to recommend personalized stock portfolios based on user inputs like portfolio size and time to retirement.
    - Utilized technologies such as Wolfram, YFinance, Google Gemini API, Firebase, TailWindCSS with Vite+React, Flask.

- **Personal Landing Page – Full Stack Website (bryanramirezgonzalez.com)**
    - Landing Page Website pulling data from personal calendar app to display events to users.
    - Utilizes Flask, TailWindCSS with Vite+React, and Monday.com's GraphQL API tool to display events on Website.

- **CodePath Technical Interview Prep Course**   **SEPT 2024 – NOV 2024**
    - 10 Weeks of Interview Prep for students covering challenging algorithmic problems, discrete structures, and time complexity/memory management.

- **FIRST Tech Challenge Robotics Team #24578 - Lead Programmer**   **SEPT 2023 - FEB 2024**
    - Developed code in JAVA that connected systems to operate via Controller and Autonomously.
    - Incorporated the use of Machine Learning through the use of a camera using industry modules such as TensorFlow.

- **SkillsUSA Engineering Technology/Design Competition – Team Leader**   **NOV 2023 – APR 2024**
    - Researched and designed a robotic hand using the PLTW Engineering Process.
    - Directed my group to create an engineering project through the use of the Engineering Process.

ACCOMPLISHMENTS/AWARDS

- **AstroHacks Hackathon Irvine CA** – (Winner) Gold Medalist, Best Execution
- **2024 SkillsUSA CA Engineering Technology/Design REGIONAL Finalist && STATE Bronze** – 3rd Best Engineering Project in the State of California.
- **2024 FIRST Tech Challenge CENTERSTAGE Robotics REGIONAL Semifinalist** - Top 5 out of 32 Teams

SKILLS

- **Langu**ages: Python, C/C++, Java, JavaScript, HTML/CSS, SQL, GraphQL
- **Frameworks:** Flask, React.js, Next.js, TailwindCSS, Firebase, FastAPI
- **Libraries:** Anaconda, Pandas, NumPy, Matplotlib, PyTorch, TensorFlow
- **Other:** APIs, GraphQL, Firebase, Google Gemini, OpenAI's ChatGPT