

Ryan J. Dewey

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SKILLS

Programming: Python, Go, JavaScript/Typescript (React, Node.js, Express), C++, ARM Assembly, Java, SQL, HTML, CSS, MATLAB

Tools & Frameworks: PostgreSQL, Docker, AWS EC2, Pandas, Linux, Git/GitHub, ROS2, React Native, Verse, Redux, Auth0

EDUCATION

University of California, Los Angeles (UCLA)

Los Angeles, California

B.S. Computer Science and Engineering

Expected Graduation, June 2027

Saddleback College

Mission Viejo, California

A.S. Computer Science, Physics, & Mathematics — Summa Cum Laude (4.0 GPA)

Graduated, May 2025

EXPERIENCE

Founder and Software Developer

Orange County, California

Dart Ordering

December 2024 – Present

- Creating an online ordering SaaS for restaurants, enabling online ordering and customer data insights.
- Developed a multi-tenant web app using **React**, **TypeScript**, **Node.js**, and **PostgreSQL** to serve multiple restaurants.
- Conducted customer discovery with multiple restaurants and secured interest in pilot partnerships prior to launch.
- Implemented advanced features including JWT authentication with refresh token rotation, dynamic multi-tenant theming, and point-of-sale order routing based on client-specific configurations.

Infrastructure Intern

Los Angeles, California

UCLA ACM Board – Dev Team

Sep 2025 – Present

- Developing **on-premise server infrastructure** to locally host ACM applications, reducing cloud hosting costs and improving deployment control.
- Applying **system design** principles to create scalable, fault-tolerant environments with automated provisioning.

Neurotech Competition Team Project Lead

Los Angeles, California

CruX at UCLA

Oct 2025 – Present

- Leading a team in developing a **Brain-Computer Interface (BCI)** system by coordinating technical design, implementation, and research efforts.
- Designing EEG signal pipelines involving **filtering**, **artifact removal**, and **feature extraction** (e.g., band power, PSD) for analysis by **machine learning models** for classification of cognitive or motor intent.

Founder and President

Mission Viejo, California

The CodeBase

May 2024 – June 2025

- Founded a web development program at Saddleback College that builds websites for local non-profits and businesses.
- Recruited and led a **40+** member team, managing development for 6 client projects, generating **\$6,000+** in revenue.

PROJECTS

Market Demand Data Pipeline — Python, Pandas, PostgreSQL

- Developed an ETL data pipeline to aggregate and normalize business, demographic, and geographic data from multiple APIs into a centralized PostgreSQL database.
- Performs data cleaning, transformation, and geospatial analysis to identify high-demand areas for specific businesses.

Web Crawler Lead Generator — Go

- Designed and implemented a web crawler in **Go** to identify and collect contact information from business websites.
- Built a scalable pipeline with concurrent crawling, HTML parsing, and deduplication.
- Exports contact information to CSV and Google Sheets for easy sales and marketing workflows.

Rover Autonomous Navigation — Python, ROS2, OpenCV

- Developed a ROS2-based Python program enabling the rover to autonomously navigate toward ARUCO tags by processing camera input, detecting tag position relative to vertical boundaries, and dynamically adjusting wheel velocities for realignment.

