

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)

B.S. Computer Science and Engineering

Los Angeles, California

Expected Graduation, June 2027

Saddleback College

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

Mission Viejo, California

Graduated, May 2025

EXPERIENCE

Founder and Software Developer

Dart Ordering

Orange County, California

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

UCLA ACM Board – Dev Team

Los Angeles, California

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.

