

Cole Edmonston

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Skills

- Computer skills: C#, Python, Java, JavaScript, TypeScript, Firebase, Expo, React Native, Supabase, Next.js, Gemini API, Groq API
- Related coursework: AP Computer Science Principles, AP Computer Science A, Advanced Game Design, Game Programming and Design, Fundamentals of Computer Science, Data Structures

Personal Projects

Intake

- Building an AI-powered nutrition and supplement scanner app using React Native (Expo) and Supabase, letting users scan any food or supplement label with their camera and instantly receive a personalized ingredient breakdown.
- Engineered a Supabase Edge Function pipeline using Gemini 2.5 Flash Vision for single-call label analysis, scoring products on Safety, Dosing, and Transparency at ~\$0.002 per scan.
- Implemented server-side JWT auth, scan rate limiting, SHA256 result caching, and atomic account deletion via Postgres transactions for a secure, privacy-conscious backend.

ENVISION Wardrobe

- Designed and developed an iOS wardrobe management app using React Native and Expo, managing the full product lifecycle from concept to TestFlight deployment, with 90+ beta users.
- Architected secure backend infrastructure with Firebase (Authentication, Firestore, Storage, Cloud Functions), implementing rate limiting, and API key protection through serverless proxy functions.
- Integrated Groq's Llama 4 Vision API for AI-powered clothing analysis, automatically detecting garment categories, colors, patterns, and brands from user photos.

Mustang Market

- Built a peer-to-peer marketplace web app for Cal Poly students using Next.js, TypeScript, and Firebase, enabling secure buying and selling of campus items with two other project members.
- Implemented user authentication, real-time messaging, and listing management with Firestore, supporting image uploads via Firebase Storage.
- Grew platform to 700+ registered users with active daily listings and real-time buyer-seller communication, driving organic adoption across campus.

Professional Experience

The Facility CA

Concord, CA

Employee

Nov 2024 – Mar 2025

- Promoted high customer satisfaction by resolving problems with knowledgeable and friendly service.
- Assisted with customer requests and answered questions to improve satisfaction.
- Completed day-to-day duties accurately and efficiently.

Math Tutor

Clayton, CA

Self-Employed

Nov 2023 – Apr 2024

- One-on-one hour long tutoring sessions in Algebra 1 and Algebra 2.
- Worked with middle school and high school students.
- Offered both remote and in-person sessions.

Education

California Polytechnic University, San Luis Obispo

San Luis Obispo, CA

Bachelor of Computer Science Candidate

2029

- Dean's List (Fall 2025) • 4.0 GPA

Clayton Valley Charter High School

Clayton, CA

2025

- Scholastic Athlete Award (4 Years) • Presidents List (4 Years) • Honor Roll (4 Years)
- AP Scholar with Honors (2 Years) • NCS 2nd Team All-League (Baseball)