

Elias Thomas

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EDUCATION

California State University, Fullerton

B.S. in Computer Science — GPA: 3.87 / 4.0

Fullerton, CA

August 2023 – Present

Expected Graduation: May 2027

Relevant Courses: Software Engineering, Data Structures & Algorithms, Files & Databases, Front End Engineering

EXPERIENCE

Controls and Data Engineer

Formula SAE

Aug. 2025 – Present

Fullerton, CA

- Collect and process telemetry from the Engine Control Unit (ECU) to evaluate engine and vehicle performance.
- Design and implement the core firmware for the vehicle's Electric Throttle Control (ETC) system using C++ on an Arduino microcontroller, resulting in a **6%** increase in engine efficiency.
- Collaborate in a multidisciplinary team with **20+** mechanical and electrical engineers to integrate the ETC module and other components with physical sensors and vehicle hardware.

Algorithm Officer

Association for Computing Machinery (ACM)

June 2025 – Present

Fullerton, CA

- Lead weekly workshops on fundamental data structures and algorithms for 40+ students, delivering over **10** sessions on topics including arrays, trees, and graphs.
- Develop and present a curriculum of **30+** LeetCode-style problems to strengthen members' problem-solving abilities and prepare them for technical interviews.
- Provide targeted one-on-one mentorship during workshops, providing guidance on effective debugging, professional coding practices, and advanced algorithmic thinking.

Barista

Starbucks Coffee Company

Oct. 2023 – Present

Ladera Ranch, CA

- Provide exceptional customer service in a fast-paced environment, building meaningful connections with regular customers and serving **500+** per day.
- Effectively communicate with coworkers to streamline operations, manage peak hours, and maintain a positive work environment, resulting in a **10%** increase in sales.
- Accurately process hundreds of daily transactions, maintaining speed, precision, and trust in handling payments.

PROJECTS

Group Chat Web Application [Github] | *Python, FastAPI, PostgreSQL, React, Websockets*

Sept. 2025

- Built a full-stack messaging platform with JWT-secured authentication, group chats, invitations, and user management.
- Designed a PostgreSQL schema (accounts, chats, messages, invites) with SQLAlchemy ORM to ensure persistence, relational integrity, and data validation.
- Integrated a React frontend and implemented WebSockets for real-time chat messaging, enabling live updates across multiple clients.

Formula SAE Club Website [Github] | *HTML, CSS, JavaScript*

Oct. 2025

- Developed a responsive, multi-page static site for the FSAE team to showcase engineering projects and attract new members.
- Structured a mobile-first layout using CSS Grid and Flexbox to ensure a clean, consistent UI on all devices.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML/CSS, C++, Assembly

Technologies: FastAPI, React.js, REST APIs, SQLAlchemy, JWT Authentication, Supabase

Tools: Git, GitHub, Linux, Vite, VS Code