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Elias Thomas

EDUCATION

California State University, Fullerton | Fullerton, CA   **August 2023 - Present**
Expected Graduation: May 2027
B.S. in Computer Science | GPA: 3.87 / 4.0
Relevant Courses: Software Engineering, Data Structures & Algorithms, Files & Databases, Front End Engineering

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML/CSS, C++
Technologies: FastAPI, React.js, REST APIs, SQLAlchemy, JWT Authentication
Tools: Git, GitHub, Linux, Vite, VS Code

EXPERIENCE

Formula SAE | Fullerton, CA   **Aug. 2025 - Present**
Controls and Data Engineer Team Member
- 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.
- 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.

Association for Computing Machinery (ACM) | Fullerton, CA   **June 2025 - Present**
Algorithm Officer
- 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.

Starbucks Coffee Company | Ladera Ranch, CA   **Oct. 2023 - Present**
Barista
- Provide exceptional customer service in a fast-paced environment, building meaningful connections with regular customers and serving hundreds per day.
- Effectively communicate with coworkers to streamline operations, manage peak hours, and maintain a positive work environment.
- 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 | HTML, CSS, JavaScript   **Oct. 2025**
- Developed a responsive, multi-page static site for the FSAE team to showcase engineering projects and attract new members.