

SUTTON ELLIOTT

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Project Portfolio [HERE](#)
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Objective

Results-driven, computer engineering professional and collaborative team player with hands-on experience building and deploying full-stack systems, embedded integrations, and machine learning pipelines. Seeking to play a direct role in the sustainment and success of an innovative team where I can contribute across the full development lifecycle, from architecture and implementation to testing and optimization, while growing alongside a collaborative and driven group.

Summary

4 Constants Brought to any Team or Organization:

- **Analytical Problem-Solving:** Data-driven thinker who debugs hardware and software challenges to reach solutions fast.
- **Relationship Management:** Leads diverse teams across firmware, software, and systems to stay aligned and deliver on time.
- **Operational Discipline:** Brings structure to complex schedules and multi-system environments from day one.
- **Technical Versatility:** Fluent across the full stack, from embedded systems to cloud applications and ML pipelines.

Education & Projects

TEXAS A&M UNIVERSITY – 3.13 GPA

College Station, TX – Aug 2022 – Graduated May 2026

- Bachelor's in Computer Engineering
- Minor in Mathematics

ECONEST – HOME AUTOMATION SYSTEM – CAPSTONE PROJECT

- Deployed a production AI-driven smart home unifying 84 IoT devices across Zigbee, Wi-Fi, and cloud APIs.
- Built an end-to-end pipeline from embedded hardware through Flask and MySQL to an AI layer for autonomous control.
- Delivered a live, AI-powered residential system to a supervising professor in a real-world environment.

DATABASE DASHBOARD - ADVENTUREWORKS DATABASE

- Built an interactive dashboard for exploring enterprise-scale employees, department, and sales data.
- Wrote complex SQL queries using joins, subqueries, and aggregation connected to a GUI via JDBC.
- Designed queries with performance and scalability in mind for large relational datasets.

TAMU TRANSIT VOICE – ACCESSIBLE BUS ASSISTANT

- Built a voice-first web prototype with AI-generated responses replacing the map-based TAMU bus app for low-vision students.
- Validated through a usability study where participants completed tasks faster than with the original app.
- Earned a 5/5 independent usability rating and 4.6/5 ease-of-use score in post-study surveys.

CUSTOM GOOGLE WORKSPACE API SIDEBAR TOOL

- Built a sidebar add-on consolidating document workflows via Google Drive and Gmail APIs.
- Implemented Find and Replace, digital signatures, and document duplication in a single interface.
- Designed a clean, modular UI built for usability and future expansion.

Certifications & Technical Skills

- **Certifications:** Professional Scrum Product Owner I, Building with the Claude API (Anthropic Academy), Microsoft Certified: Azure AI Fundamentals (AI:900)
- **Programming:** C++, Python, JavaScript, SQL, HTML, CSS, TypeScript
- **Frameworks & Tools:** MySQL, Git, Google Apps Script, PyTorch, JDBC, Flask, Next.js,
- **Cloud & Dev Environments:** Azure, Docker, Hugging Face, Tailscale, Home Assistant
- **Areas of Focus:** Full-Stack Development, Machine Learning, Database Design, Embedded Systems, IoT Integration

Work Experience

SIDEWALK – Software Engineering Intern

Dallas, TX - May 2026 – August 2026

Worked as a Software Engineering Intern at an early-stage AI startup building an agentic conversational platform. My primary responsibilities included contributing to production code across the full stack, building features, and designing REST APIs. The most prevalent languages included TypeScript, Python, and JavaScript, powering an Angular frontend with real-time voice interaction controls and a Node.js/Express backend that connects via REST APIs to a Python based AI agent. In further detail:

- Used Claude Code throughout to accelerate development, debugging, and code review
- Built and maintained CI/CD pipelines with Docker and Git-based workflows, including deployment approvals and production monitoring
- Worked directly with the founding team on both functional design and technical creation
- Implemented security improvements such as rate limiting and content security policies
- Improved the AI agent's ability to transcribe and summarize potentially ambiguous voice input correctly

CAMP EAGLE – Group Camp Counselor

Rocksprings, TX - May 2023 – August 2025

- Demonstrated high-stakes leadership and operational discipline by supervising groups of 35+ individuals while strictly enforcing safety protocols and incident response procedures in a high-responsibility environment
- Fulfilled a contract during each summer from May-August

RAISING CANES – Trainer and Shift Manager

Frisco, TX – June 2021 – July 2022

- Directed weekly training and performance coaching for a 10-person team, ensuring consistent execution of standard work and high-quality production specifications

BRAUMS – Trainer and Crew Member

Frisco, TX – March 2018 – March 2021

- Onboarded and trained over 50 new employees in efficient operational workflows and quality standards to drive team performance and service excellence

(References Available Upon Request)