

# DUFFY ADAMS

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## Education

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### San Diego State University

*Bachelor of Science in Computer Science*

San Diego, CA

*Completed May 2026*

### Southwestern College

*Associate of Science in Computer Science*

Chula Vista, CA

*Completed May 2024*

## Technical Skills

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**Languages:** Python, JavaScript, Java, C++, SQL, HTML, CSS

**Frontend:** Svelte, React, responsive UI development, component-based design

**Backend:** Flask, REST APIs, SQLite, API integration, backend scripting

**Tools & Systems:** Git, Linux, Debian/Ubuntu, Proxmox, VMware, macOS, Windows, Jira, ServiceNow

**Deployment:** SSH, NGINX, Docker, systemd, VPS deployment, terminal-based server troubleshooting

**Concepts:** Full-stack development, web scraping, database design, debugging, deployment, technical documentation

## Technical Projects

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### Traffic Incident Scraper & App | *Python, Flask, SQLite, BeautifulSoup, Svelte* | <https://traffic-app.duffyadams.com>

- Built a real-time traffic and emergency incident dashboard that aggregates live public traffic data into a unified web platform for San Diego-area incidents.
- Developed a Python/Flask backend with automated scraping jobs to collect, process, and update incident data from external public safety sources.
- Designed a SQLite data layer for incident records, comments, likes, generated summaries, coordinates, map assets, and active/inactive status tracking.
- Implemented geocoding and map-generation pipelines to convert raw location details into coordinates and attach map imagery to incidents automatically.
- Integrated LLM-based summarization to convert raw dispatcher/event details into concise, user-friendly traffic alerts.
- Built a responsive Svelte frontend with filtering-ready incident cards, live refresh behavior, dark mode, map previews, sharing, likes, and comments.
- Created API endpoints for incident retrieval, comments, likes, user/device tracking, and static map image delivery.
- Deployed and maintained the application on a Linux VPS using SSH, NGINX, Git-based updates, systemd, and terminal-based troubleshooting.

### Pourtocol Smart Fountain System | *ESP32, HTTP, NFC, Ultrasonic Sensors, Web UI*

- Worked on a networked embedded system that used NFC identification, ultrasonic cup detection, and web-based controls to automate drink dispensing.
- Helped design a distributed system using ESP32 firmware, HTTP communication, mDNS discovery, and server-side control logic.
- Implemented failure-aware design concepts including request timeouts, safe relay behavior, and mutual exclusion to prevent conflicting pour requests.

## Professional Experience

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### ICSolutions

*Site Administrator*

San Diego, CA

*December 2021 – Present*

- Serve as the primary technical contact for correctional facility communication systems, supporting phone, tablet, kiosk, and network-connected hardware.
- Troubleshoot hardware, software, account, and connectivity issues while coordinating with technical support teams, facility staff, and investigative personnel.
- Manage support requests, grievances, complaints, and operational issues through Jira and ServiceNow.
- Prepare technical reports and weekly operational updates covering system performance, maintenance issues, and open service items.
- Repair, replace, configure, and maintain facility hardware including inmate telephones, tablets, kiosks, and related communication equipment.
- Led the facility-wide rollout of a tablet communication system, including setup, staff training, issue tracking, and operational support, contributing to significant growth in facility communication revenue.

### Chick-Fil-A

*Supervisor*

Chula Vista, CA

*August 2015 – August 2021*

- Managed daily operations, scheduling, training, and performance support for a team of 15+ employees.
- Resolved escalated customer issues and maintained compliance with safety, service, and operational standards.