

MARCUS ADAIR

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Sandy, Utah - US Citizen

EDUCATION

- MS in Computer Science from the University of Utah May 2025
- BS in Computer Science from the University of Utah May 2023
 - Web/Mobile Development Track Certificate

SKILLS

- TypeScript, HTML/CSS, Python, Bash, React, SvelteKit, Next.js, React-Native, Tailwind, Git, AWS, CI/CD

WORK HISTORY

Junior Software Engineer at SafeStreets, UT 05/2025 – Present

- Building a full-stack TypeScript (TS) web app (SvelteKit, Node.js, Tailwind) and cross-platform mobile app (React-Native, Expo) from the ground up to replace legacy Salesforce software.
- Leading front-end architecture for web and contributing to mobile, designing reusable component systems, and contributing to API development and database schema design.
- Collaborating across a mono-repo housing the admin dashboard, mobile app, API, and PostgreSQL database-tools (Drizzle) for managing field technicians, appointments, inventory, territories, and more.

Graduate Research Assistant at Scientific Computing and Imaging Institute, UT 08/2023 – 05/2025

- Developed On-Demand Fakequakes (ODF), a full-stack web app using AWS to launch earthquake simulations through a dashboard interface, targeted for NASA and other science applications.
- Created a CI/CD pipeline with GitHub Actions to automate Docker builds, deployments, and AWS infrastructure updates via the AWS Cloud Development Kit.
- Built an interactive map interface with custom polygon drawing for selecting simulation zones, plus parameter editing via sidebar, modals, and dynamic forms.

Full-Stack Software Engineer Intern at University of Oregon, OR 05/2024 – 08/2024

- Initiated development of ODF, a Python-based dashboard (Plotly Dash) with an AWS workflow for automating earthquake simulations - later expanded into my Master's Project and graduate research.
- Containerized the app with Docker and deployed to AWS Fargate, designed the cloud architecture for simulation execution and data delivery.

Undergraduate Research Assistant at Scientific Computing and Imaging Institute, UT 05/2022 – 08/2023

- Designed an automatic, high-throughput simulation workflow using Python and Bash scripts on the Open Science Grid, reducing time from 20+ days to < 1.5 days for 30,000+ simulations.
- Authored an 8-page research paper published by ACM and presented findings at an SC '23 workshop.

PERSONAL PROJECTS

VVSB Website – Full-stack website for a client In-Progress

- Developing a full-stack website for a Salt Lake City EDM event company using SvelteKit, handling everything from database schema design to polished front-end web animations.
- Built a merch storefront integrated with Square API for inventory management and secure checkout, plus S3 for photo storage and PostgreSQL/Drizzle for data persistence.
- Developed a secure admin interface with session-based authentication, API routes with input validation and error handling for CRUD operations, and configured production deployment on Railway.

Spatial Enrichment Data Engine – BS Senior Capstone Project 08/2022 – 05/2023

- Led front-end development for a geocoding web application in collaboration with Idaho National Laboratory as part of my undergraduate senior capstone project (Angular/.NET stack, TS, HTML/CSS)
- Designed Angular components, integrated Esri API library widgets for an interactive map, wired up the front-end to the team's .NET back-end, and implemented Figma designs.