

Foster Salvador

Computer Science & Applied Mathematics · Machine Learning & Software Engineering

Albuquerque, NM · (505) 414-1504 · salvadorfosterdev@gmail.com · salvadorfoster.dev



Scan to view my
portfolio

I'd love for you to see my work in depth — visit salvadorfoster.dev or scan the QR code above.

Education

University of New Mexico

B.S. Computer Science & Applied Mathematics

Pursuing M.S. in Computer Science

Expected May 2028

GPA: 3.7

Expected May 2029

Relevant Coursework:

- **CS:** Data Structures & Algorithms, Computer Architecture, Operating Systems
- **Math:** Discrete Mathematics, Partial Differential Equations, Vector Calculus, Numerical Computation

Technical Skills

Languages: C, Python, Java, Haskell, MATLAB, R

Tools: Git, Linux, Claude, Codex, OpenClaw, Docker

Projects

AI Draft Builder

- Hooks into DraftKings and other draft sites over WebSocket to read live draft data as picks come in
- Runs Monte Carlo Tree Search over training data to find the pick with the highest expected value at each turn
- Surfaces each recommendation live in a browser overlay on the draft room, so the best available pick is right there as the clock runs

AI Writing (iPad Handwriting App)

- Built a handwriting app for iPad in SwiftUI (and a Next.js web version) with an "AI lasso" that sends any circled part of the page to Claude for feedback or math help
- Wrote a Python pipeline that turns handwritten poems into clean Obsidian notes and maps their recurring themes

Finance Web App (Personal Budgeting)

- Built and deployed a full-stack budgeting web app on a DigitalOcean droplet running Linux and nginx, with HTTPS and password-protected logins
- Tracks income and spending on a dashboard so you can see where your money goes; I handled the server setup, deployment, and security from start to finish

Content Automation Tool

- Developed a script using FFmpeg and Whisper for automated subtitle generation and video editing
- Implemented transcription-based captioning and automated transitions for short-form content
- Streamlined a content-production workflow supporting 70K+ followers across platforms

Calorie Tracking iPhone App with Garmin Integration

- Built a native iPhone app in Xcode with a user interface to track net calories using wearable data (primarily burned calories / training intensity)
- Integrated Garmin activity data to dynamically adjust daily calorie and macronutrient targets
- Designed a system for real-time feedback and data-driven health optimization

Experience

Underwater Ceramic Technician (Dishwasher...)

Present

- Wash dishes and support kitchen operations at a family-owned business in Albuquerque, NM.

Plugin Coder / Social Media Manager

Present

- Build and maintain server-side gameplay plugins in Java for an MMO-RPG-style Minecraft server.
- Drive player growth through advertising and trend-driven content; adapt quickly to keep the community growing.

Summer Camp Counselor — New Mexico Tech, Socorro, NM

2026

- Helped run a summer camp introducing middle and high school students to programming and design fundamentals; assisted instructors and worked with campers on hands-on projects.

Calculus Tutor (Independent)

2026

- Tutor students in derivatives, integrals, and AP Calculus AB/BC prep.
- Break down complex mathematical concepts into clear, intuitive explanations.

Route Setter Assistant — Stone Age Climbing Gym, Albuquerque, NM

2023 – 2024

- Maintained and organized climbing holds to support route-setting operations.
- Forerunner-tested routes and evaluated climb difficulty and flow in a fast-paced team environment.

Additional

LeetCode: Solved 50+ algorithmic problems covering data structures and problem-solving techniques

Interests: Artificial intelligence, machine learning, data systems, mathematical modeling, optimization, programming

Clubs: Soccer club member, Run club member