Allan Foote

AI Application Developer · Business Systems Analyst
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EXPERIENCE

Business Systems Analyst May 2024 – Present (Intern → Full-time)
Valero · San Antonio, TX

- Identified inefficiencies in marine commercial workflows and designed automation that cut manual workload ~50%.
- Led functional design for the IMOS-SAP integration, translating business workflows into system requirements and aligning stakeholders with developers.
- Drove end-to-end delivery of SAP enhancements (discovery → requirements → testing → go-live) and triaged high-volume production issues across commercial systems.

HX Endpoint Engineer Intern Apr – Aug 2023
Trellix · Draper, UT

- Investigated and mitigated 100+ threat incidents; managed IAM roles and access controls for secure client environments.
- Analyzed triage reports to identify and classify malware and security threats.

Owner / Chief Operating Officer Apr 2020 – Dec 2022
TooCoolSodas (DBA FiiZ Drinks) · San Antonio, TX

- Founded and scaled a multi-location retail business from concept to brick-and-mortar, including market validation, launch, hiring, and team management.
- Redesigned the order workflow (+90% customer satisfaction, ~20% faster delivery) and negotiated supplier contracts saving $60,000+/year.

Project Manager Aug 2023 – Apr 2025
Dining Services, Brigham Young University · Provo, UT

- Led a cross-functional team of 11 to deliver ~300 advertising projects; built an automation system that cut manual time-entry ~90%.

PROJECTS (AI/FULL-STACK)

- **Nerve**: AI operational memory for a business. Watches how work gets done and reads a company's documents, then builds a knowledge graph and step-by-step walkthroughs where every claim links to its source. Built it end to end. Other AI tools can query it directly, and a test suite I built took answer accuracy from 4/13 to 12/13. In production on a customer's real data. Python, FastAPI, Postgres. nerve.fyi
- **Kinaroo**: Voice-first journal. AI-led conversations turn what a journaler says into distinct stories, building a shareable record of their life. Built the extraction pipeline, data model, and web app. Next.js / Prisma. kinaroo.app
- **Stream Engineer**: Local-first AI audio engineer for OBS. A C++ plugin captures real-time DSP metrics and applies gain, while a C#/.NET desktop app classifies each source and rebalances voice, game, and music as conditions change mid-stream. Built both halves.
- **Pulse**: Anonymous workplace-feedback platform. Clusters raw employee feedback into deduplicated issue cards ranked by severity and volume, with a leadership analytics dashboard and voice input. React / Express.
- **LeagueCoach**: Real-time coaching agent for League of Legends. Combines Riot's Live Client API with OpenCV minimap detection and delivers spoken coaching on game events. Python, OpenCV, Anthropic API.
- **Chalksnap**: Football play designer. Finger-drawn routes, per-player assignments, and synchronized play animation. React, Konva canvas, Zustand. Live and used on the sideline. chalksnap.com
- **WoWStory**: Interactive quest story-graph over 10,000+ quests (React Flow + DAG layout) with spoiler-aware fog-of-war and generated recaps from parsed game data.

SKILLS

AI / LLM: Anthropic Claude API (Opus · Sonnet · Haiku · vision · structured outputs), OpenAI (GPT · Whisper), Deepgram, RAG & hybrid retrieval (embeddings, pgvector, RRF), knowledge graphs, MCP, evals, prompt engineering, agentic development (Claude Code, Cursor)
Software: React, Next.js, React Native (Expo), TypeScript, JavaScript, Node / Express, Python, FastAPI, C# / .NET (WPF), C++, Tailwind CSS, Docker, AWS, Vercel, DigitalOcean
Data: PostgreSQL + pgvector, SQL, SQLite, MongoDB, Prisma
Business / Tools: SAP (functional design & debugging), VBA, Tableau, Jira, Figma, stakeholder collaboration, process optimization

LEADERSHIP & SERVICE

- Elected Valero United Way campaign leader (contributed to $7.9M raised); Eagle Scout (led a volunteer project for the New Braunfels Food Bank); full-time volunteer service in Frankfurt, Germany; Drum Major of a nationally recognized high-school band program.

EDUCATION

B.S. Information Systems, Brigham Young University, Marriott School of Business Provo, UT · Apr 2025