

# RYAN ANSELMAN

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**AI product engineer** specializing in LLM integration and customer-facing AI implementation. Since 2024, designed, built, and shipped solo: Write-On (macOS voice transcription in daily production use), YapZapp (voice-to-intent capture with LLM routing), BlessDog (dual-MCP-server control of Ableton Live, 40+ agent tools), TortWin (clinical-NLP medical chronology pipeline), and JobCanon (multi-ATS browser automation). Earlier: firmware validation at Micron, network infrastructure for Meta data centers (promoted to project lead mid-engagement), and direct technical sales (team lead). I translate enterprise requirements into AI capabilities and ship the integration that makes them work. US citizen; no sponsorship needed.

## SELECTED WORK

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### **Write-On** — write-on.app

Shipped push-to-talk voice transcription for macOS, in daily production use. Real-time Deepgram Nova-3 streaming with pause-and-resume and last-utterance preview; custom 3D cascading waveform visualizer.

Swift · SwiftUI · AVFoundation · Deepgram SDK

### **YapZapp** — yapzapp.com

Passive voice capture with LLM-based intent routing — content classified and routed as you speak. Web shipped; native iOS in development with Metal-shader waveform rendering and a system-wide keyboard extension.

Swift · SwiftUI · Metal · Anthropic API

### **BlessDog Music System** — github.com/blessdog/blessdog

AI-controlled Ableton Live: dual-MCP-server architecture exposing 40+ tools to LLM agents for clip creation, MIDI sequencing, mixing, and device control. Five-stage pipeline: OSC bridge, MCP tool server, sample-library indexer, session-template builder, reference-track analyzer (Demucs + librosa).

Python · Node.js · MCP Protocol · OSC · Anthropic SDK

### **TortWin** — github.com/blessdog/chronology\_mvp

Medical chronology MVP for personal-injury law firms. AWS Textract Medical OCR, BioClinicalBERT and scispaCy entity extraction, timeline assembly with duplicate consolidation. Market validated across 20+ practitioner and industry sources; runs end to end on synthetic and public clinical data; live-firm pilot is the next milestone.

Python · FastAPI · React · PostgreSQL + pgvector · AWS Textract · Docker

### **JobCanon** — github.com/blessdog/jobcanon

Multi-ATS application automation (Workday, Greenhouse, Lever) on stable data-automation-id selectors with adaptive fallbacks; local LLM resolves free-form dropdowns; IMAP polling for verification flows. TypeScript rebuild in progress.

Python · Playwright · Ollama · TypeScript

## EXPERIENCE

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### **AI Product Engineer** — Independent (MatterMixers), Denver

Jan 2024 – present

- Built and shipped the five products above end to end; daily-driver agentic tooling: Claude Code, MCP server integration, multi-agent orchestration, Playwright browser automation.

### **Network Infrastructure Engineer (Contract)** — Iron Systems Inc

Oct 2023 – present

- Intermittent contract field work at Meta data center facilities: LAN/WAN deployment, Linux administration, network security, fiber and copper plant.

### **Network Infrastructure Lead, Meta data centers** — via Ericsson

Jul 2023 – Dec 2023

- Started as technician on a data center buildout; promoted to project lead mid-engagement. Finished the buildout on schedule and to spec.
- Coordinated fiber and copper deployments facility-wide, ran QA/QC, bridged PM, engineering, and on-site crews.

**Firmware Validation Engineer** — Micron Technology

Jul 2021 – Jul 2022

- Python test automation for firmware validation on high-performance memory controllers and SSDs; bench testing and debugging that caught regressions before production.
- SCRUM team with distributed code review; maintained C++ firmware components alongside the validation suite.

**Customer Engineer** — NCR Corporation

Dec 2020 – Jun 2021

- Field engineering across Colorado's Front Range: maintenance and repair on ATM and retail POS hardware under SLA; embedded software configuration.

**Network Technician** — Kenyatta Computer Services

Jan 2019 – Dec 2020

- Network hardware deployments; wireless site surveys with Ekahau; Git-based change control on configuration work.

**Residential Sales Consultant & Team Lead** — Blue Sky Solar

Nov 2018 – Nov 2019

- Promoted to team lead within months on closed-deal performance; trained and managed a small crew through ramp while carrying quota. Full-cycle B2C sales across the Denver metro.

**SKILLS**

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**AI/LLM:** Anthropic API, OpenAI API, Ollama, MCP protocol, agentic systems, multi-agent orchestration, RAG, evals, voice AI, NLP (spaCy, BioClinicalBERT), prompt engineering

**Languages:** Python, TypeScript, JavaScript, Swift, Bash, C++

**Stack:** FastAPI, React, Node.js, SwiftUI, Supabase, PostgreSQL + pgvector, Playwright, Docker, AWS (Textract, SageMaker), Linux, macOS, LAN/WAN

**Customer-facing:** customer discovery, technical demos and pilots, stakeholder translation, direct sales (team lead)

**EDUCATION**

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**B.S. Computer Science & Microbiology** — The Evergreen State College

2016 – 2018