Daniel Ives

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- I'm a software engineer at Bamboo Rose (acquired Backbone PLM), modernizing an Enterprise PLM application.
- I take great pride in building things that positively impact the people who use it.
- I moonlight as a sports drummer and a music educator.

Professional Experience

Bamboo Rose - Remote, Colorado
Senior Software Engineer | 2023 - Present (Promoted 2026)
- Architected and built greenfield multi-tenant reporting service (Spring Boot + Next.js) from ground up, including custom auth solution bridging multi-tenant to single-tenant legacy system
- Drove AI tool adoption across the engineering team, created internal resources and tool recommendations that boosted velocity by 10-50% without sacrificing quality.
- Mentored 2 frontend engineers to become full-stack contributors, teaching Java fundamentals and empowering them to independently build features in the new API suite within 2 weeks.
- Streamlined git branching strategy and increased from monthly to bi-weekly release cadence of enterprise single-tenant application.
- Led modernization by injecting React micro-frontends into legacy app and architecting modern OpenAPI REST layer with clean repository abstraction, enabling incremental feature development while isolating legacy dependencies

Backbone PLM (Acquired by Bamboo Rose) - Boulder, Colorado
Junior Software Engineer | 2021 - 2023
- Optimized critical data processing function from $O(n^2)$ to $O(n)$ complexity, reducing page load time from ~30s to ~5s for large production datasets
- Built full-stack features using Angular, Vue, Express, and MongoDB across apparel PLM platform
- Identified and remediated security vulnerabilities including an undiscovered cross-site scripting attack.
- Collaborated in an agile environment to deliver high-quality features, fostering effective communication with engineers, management, product team, and designers.

Other Projects

cozytab - https://cozytab.club
- multiplayer room decorator app with a huge emphasis on beautiful user experience and fast iteration loop with key target customers.
- React frontend, Convex real-time database, and Clerk authentication service
- Separate Cloudflare Durable Objects service for real-time cursors and chat
- Implemented Freemium model daily rewards, referrals, and Stripe payment option

Scribe - https://github.com/daives01/scribe
- A self-hosted voice note application with AI transcription and semantic search. Runs on a headless base M4 mac mini.
- connected to my iPhone via tailscale, allows me to record quick voice notes from action button
- Python FastAPI backend, HTMX frontend. MLX-whisper for transcription generation, ollama for embedding/processing.
- Built custom evals to tune prompt and find the best smallest model. Found qwen3-4b to be the best combination of speed/reliability

Moonlander - https://moonlander.rocks
- Built Lunar landing simulator with integrated code editor using React, TypeScript, and Three.js
- Attracted 250+ users in first weekend

Raspberry Pi Hand-Gesture controller - Github | Demo
- Computer vision hand-tracking with python running on a raspberry pi, connected to client via websocket
- Hand gestures get picked up by pi, sent to client to control media on device (play, pause, volume, etc)

"Nikhil GPT" LLM - Github | Presentation
- Generated ~20 hours of lecture transcripts with Whisper.
- Trained a language model using Andrej Karpathy's nanoGPT

Skills

Languages & Frameworks: TypeScript, Python, React, Next.js, Java, Spring Boot, Angular, Vue.js
Databases & Tools: SQL, MongoDB, Convex, Git, Linux, Vim, Opencode, Cursor
Specializations: Full-stack development, DB/API design, performance optimization, CI/CD, AI integration

Education

Colorado State University | Fort Collins, Colorado | 2020 - 2023
- B.S. in Computer Science
- CSU College of Natural Sciences Dean's list
- 4.0 GPA, Graduated summa cum laude