Jackson Rosenbloom

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Summary

Software engineer focused on AI integration and full-stack development (TypeScript, React, Python, Rust). Trained 200+ employees on Claude, built on-device AI features, and co-founded SchematicSense, building on-premises AI for companies with strict compliance requirements (HIPAA, GDPR and more).

Skills

- **Languages:** TypeScript, JavaScript, Python, Rust, Java, HTML, CSS
- **Frameworks & Platforms:** React, Node.js, Electron, Tauri, PyQt6, Vite, Microsoft Copilot Studio
- **AI/ML:** LLMs, Claude, Anthropic API, prompt engineering, AI agents, RAG, semantic search, ONNX Runtime, Hugging Face, Whisper, OCR, computer vision (YOLO), LLM evaluation
- **Graphics & Tools:** WebGPU, WebAssembly, WebGL, CRDTs (Yjs), Git, pnpm, Vitest, CI/CD

Experience

Co-Founder, Chief Design Officer & Go-to-Market Strategist | SchematicSense | Sep 2026 – Present

- Co-founded a pre-launch startup building on-premises AI chatbot applications with local LLM deployment for healthcare, finance and legal organizations bound by HIPAA, GDPR, FERPA and COPPA.
- Designed the company's PyQt6 desktop application from scratch, owning the product UI/UX.
- Developing go-to-market strategy and positioning for privacy-sensitive, regulated buyers.

AI Team Intern | Denali Advanced Integration, Redmond, WA | Mar 2026 – Sep 2026

- Led AI enablement workshops and 200+ person sessions training employees on Claude, in partnership with executive leadership.
- Directed tailored Claude projects for multiple teams, driving an average productivity increase of more than 40%.
- Developed and maintained Claude skills and plugins (prompt engineering, workflow automation) that accelerated the company's transition to Claude by months.
- Benchmarked AI models, including Rainier-VL, Denali's open-weight 2.1B-parameter vision-language model for edge defect detection, which outperformed models up to 5x its size.
- Built full-stack internal tools, including a note-taking app linked to an AI projects dashboard.
- Partnered with lead engineers on returns bench automation and presented technical demos to shareholders and clients.

Junior Programmer Analyst | Auto Warehousing Company, Tacoma, WA | Feb 2025 – Mar 2026

- Built a Microsoft Copilot Studio AI agent that turned static business reports into a conversational analytics chatbot used by 40+ people across operations management and IT, reducing analysis time from hours to minutes.
- Wrote custom Python computer vision (YOLO object detection) for image and video recognition, cutting label scan time by 80% and reducing errors by over 15%.
- Partnered with technology and operations teams to design and propose process automation initiatives.

Application Development Intern | University of Washington, Dept. of Earth and Space Sciences, Seattle, WA | May 2023 – Dec 2024

- Redesigned SeaFreeze, a modular Python thermodynamics framework for modeling planetary hydrospheres, simplifying workflows for over a dozen researchers and significantly improving the responsiveness and rendering speed of complex 3D graphs.
- Delivered Python software and presentations to NASA board members.

Projects

Local-First AI Spatial Workspace | TypeScript, React, Electron, Rust, WebAssembly, WebGPU, Yjs, ONNX Runtime

- Architected an offline-capable infinite-canvas workspace where documents, spreadsheets, code, PDFs, calendars and 3D models are fully editable items, with two-way sync to real files on disk.
- Built a Rust/WebAssembly GPU rendering engine (wgpu/WebGPU, WebGL2 fallback) that renders 1,000+ rich items at a 7.1 ms typical frame, with pan and zoom multitudes faster than the originally used JavaScript DOM renderer.
- Integrated on-device AI running in Web Workers: semantic search (ONNX Runtime Web), OCR, Whisper speech-to-text and a local llama.cpp LLM assistant.
- Maintain a pnpm monorepo with 5,000+ automated tests, CI and performance regression gates; used Yjs CRDTs for conflict-free sync.

Education

B.S., Computer Science | University of Washington, Seattle, WA | Dec 2024

A.A., Computer Science | Tacoma Community College, Tacoma, WA | Jun 2022 | Phi Theta Kappa Honor Society