J Wylie Cullick

Founding Engineer — Zero-to-One Product, Infrastructure & AI-Assisted Delivery

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Summary

Engineer who builds and runs whole products alone, with 14 years in software. Only engineer at Medngine / Regenative Labs for three years, covering infrastructure, backend, frontend and devops, working directly with a non-technical product owner and executives. In that time rebuilt the AWS infrastructure, rescued the production order platform, and built its clean-sheet successor in Rust, using AI-assisted development to deliver a team's output as one person. Earlier, founding or sole engineer on products at several startups.

Skills

- **Ownership:** architecture, delivery, production operations, working with non-technical stakeholders
- **AI-assisted development:** Claude Code on AWS Bedrock
- **Languages:** Rust, TypeScript/JavaScript, Python
- **Product stack:** Leptos, Axum, React, React Native, Node.js, Django, Flask, WebAssembly
- **Infrastructure:** AWS, blue-green deployment, Docker, Kubernetes, Linux
- **Real-time and GPU:** WebRTC, WebSockets, WebGPU, Vulkan
- **Data:** PostgreSQL, Redis

Experience

Sole Engineer — Medngine / Regenative Labs *Oct 2022 – Present · Remote*

- **Scope:** only engineer Sept 2023 – Oct 2026: infrastructure, backend, frontend, devops. Designed and wrote all four systems alone. Second engineer joined Oct 2026.
- **Working setup:** direct with a non-technical product owner and company executives. No other technical staff.
- **Starting point, Oct 2022:** a failed outsourced AWS rebuild, an Elastic Beanstalk deployment breaking constantly, and a production app that couldn't be fixed or extended.
- **Marten (AWS infrastructure):** designed and built, spring 2023. Sole owner for four years. Runs everything, devops to production.
- **Marmot (order and commission platform):** re-engineered from the unmaintainable Flask app, winter 2023–24. Then shipped the stalled feature backlog. In production: about $2.4M a year in commission volume.
- **Magpie:** Rust (hyper) async service for Marmot.
- **Haggister (zero-to-one):** clean-sheet sales platform in Rust, Leptos, Axum and WebAssembly, extended with clinical tools: WebGPU simulation, studies and scenario builds, over WebRTC and WebSockets. Deployed blue-green; production cutover scheduled Dec 4, 2026.
- **AI-assisted delivery:** Haggister built with Claude Code, later on client-provisioned AWS Bedrock. One person, a team's output.

Earlier founding and sole-owner roles

- **Vinder App** — Software Engineer (founding engineer), Feb–May 2018, Austin. Designed and built the original system: real-time, horizontally scalable backend (Node.js, AWS EC2, S3 and Cognito, WebSockets, Redis) and the first Android app (React Native, Java, Kotlin).
- **ChameleonX** — Software Engineer, Feb–Jun 2017, Tel Aviv. R&D startup, later acquired by Akamai. Sole design and build of the core component of its proxy security layer: Node.js, Redis, Lua, multithreading.
- **Solera, Inc. (R3PI R&D)** — Senior Software Engineer, Feb–Aug 2019. Sole design and build of two products: personnel tracking, and machine-learning engine diagnostics from audio.
- **Virtual Fantasy League** — Lead Developer, Jul 2017 – Jan 2018. Owned the software implementation of a multiplayer fantasy-football web app in React, in a small distributed team.
- **Edvo** — Software Engineer, Dec 2021 – Feb 2022. Early-stage startup building a collaborative graphical editor: TypeScript, React/Preact, Rust and WebAssembly.
- **Bartr** — 2014. Sole owner of the backend and web app at a social-marketplace startup: Node.js, WebSockets, Redis, AngularJS. Wrote the WebSocket API documentation for the iOS team.

- **Terebinth** — Jan 2017 – present, independent. Private simulation engine in Rust and Vulkan.
- **Other roles:** Aetna (owned deployment and sysadmin: Docker, Kubernetes, AWS EC2), SiriusXM Connected Vehicle, The Container Store, Woobi, Sergata, GlowLit, Vida Systems, Kef International, Cognitio.

Education

- UMass Boston, 2007–2009: mathematics BSc program, most coursework completed, no degree.
- George Mason University, 2003–2004.
- Santa Monica College, 1999–2000.