

Chad Avalon

Senior Software Engineer | AI, Front End, & Product Systems

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LinkedIn: linkedin.com/in/chad-avalon | GitHub: github.com/cavaloni | Portfolio: dev.chadavalon.com

TECHNICAL SKILLS

Proficient: JavaScript, TypeScript, React, Redux, Next.js, RunPod, Vercel, Prisma, HTML5, CSS, SCSS, Node, Express, MongoDB, Jest, Enzyme, CI/CD, Cypress, Python, Django, Scrum

Exposure: Tailwind, Redis, vLLM, HuggingFace, AWS, Ruby, Elixir, Elm, Angular, Rails, Highcharts, three.js, MySQL, Postgres, Docker, GCP, Figma, Photoshop, Sketch, UX Design

PROFESSIONAL EXPERIENCE

Routly | Founding Engineer | Remote May 2025 – Present

- Built carbon-aware LLM router that lowered average workload carbon intensity by ~40% per session.
- Architected multi-region platform with AWS, Redis, RunPod, vLLM, HuggingFace, Next.js, and Vercel.
- Deployed and maintained five model clusters with WattTime-powered routing across regions.

Somnology | Lead Frontend Engineer | Bay Area Jun 2024 – Feb 2025

- Led development of a sleep apnea management dashboard for physicians, integrating wearable data.
- Built CPAP compliance charts in React/Redux that cut patient treatment onboarding time by 35%.
- Automated device data aggregation workflows that reduced manual entry errors by over 60%.
- Worked closely with clinicians to design intuitive UX, raising doctor adoption rates by 45% in pilots.

Stealth SaaS | Founding Engineer | Santa Cruz Jun 2023 – May 2024

- Developed FemTech SaaS with TypeScript, React, Vercel, AWS, plus OAuth and tRPC.
- Managed end-to-end product lifecycle including UX research, branding, marketing, and product design.
- Implemented AI features with Mistral and OpenAI APIs to extend platform capabilities for end users.

Zulily | Software Engineer | Seattle Dec 2019 – Jul 2022

- Built vendor onboarding portal with React/Redux that reduced product listing time for vendors by 150%.
- Organized testing standards across teams which reduced bug density by roughly 50% across releases.
- Refactored frontend of vendor-facing app to reduce on-call burden by 75% during peak vendor activity.

Syndio | Software Engineer | Santa Cruz Oct 2017 – Jun 2019

- Implemented pay equity calculator that added ~\$100K in new sales within the first three months.
- Built legal analytics dashboard (React, TypeScript, MongoDB, Python) with 5 views, cutting review time 40%.
- Created automated PowerPoint export feature that enabled sales to increase pricing by 20% on average.

Montaia Global | Frontend Dev (contract) | Santa Cruz Sep 2016 – May 2018

- Built event and lodging management platform in React/Redux that increased event page hits by 300%.
- Designed frontend architecture that reduced component file size 3x and improved test coverage to 90%.

EDUCATION

M.S. Computer Science – Sofia University, Palo Alto, CA — 2016

M.A. Integral Psychology – JFK University — 2012