



ABOUT ME

I'm a senior software engineer with a passion for building elegant, scalable systems that bridge human experience and machine intelligence. My work spans front-end craft and AI infrastructure — from carbon-aware LLM routing and multi-region deployments to intuitive dashboards that empower real-world decision-making. With a background in psychology and design, I approach engineering as both a science and an art — crafting products that are not only high-performing, but deeply intuitive, sustainable, and impactful.

EDUCATION

2016

Master of Science in Computer Science

Sofia University, Palo Alto, California

2012

Master of Arts in Integral Psychology

JFK University

PROFESSIONAL EXPERIENCE

Routly

May 2025 – Present

Founding Engineer | Remote

- Developed carbon-aware LLM router reducing workload carbon intensity by approximately 40% with sub-microsecond latency
- Architected multi-region infrastructure with AWS, Redis, RunPod, vLLM, HuggingFace, Next.js, and Vercel
- Launched five model clusters with WattTime-powered routing for sustainability and efficiency

Somnology

Jun 2024 – Feb 2025

Lead Frontend Engineer | Bay Area

- Built sleep apnea dashboard enabling doctors to track wearables and CPAP compliance in real time
- Reduced patient onboarding time by 35% and decreased manual entry errors by 60% via automated data workflows
- Partnered with clinicians to deliver intuitive UX, boosting doctor adoption rates by 45% in pilot programs

Stealth SaaS

Jun 2023 – May 2024

Founding Engineer | Santa Cruz

- Developed FemTech SaaS platform with TypeScript, React, Vercel, AWS, plus OAuth and tRPC integrations
- Led complete product lifecycle from UX and branding to marketing and feature development
- Integrated AI features (Mistral, OpenAI APIs) expanding platform intelligence for end users

Chad Avalon

Senior Software Engineer
AI, Front End & Product Systems

CONTACT

LOCATION

Santa Cruz, CA

PHONE

503.801.1095

EMAIL

chad.avalon1@gmail.com

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

Zulily

Dec 2019 – Jul 2022

Software Engineer | Seattle

- Created vendor onboarding portal reducing vendor listing time by 150% using React/Redux
- Standardized testing practices, cutting bug density by approximately 50% across engineering teams
- Refactored vendor-facing application frontend, decreasing on-call incidents by 75% during peak periods

Syndio

Oct 2017 – Jun 2019

Software Engineer | Santa Cruz

- Delivered pay equity calculator generating approximately \$100,000 in new sales within 3 months through client adoption
- Built legal analytics dashboard (React, TypeScript, MongoDB, Python) with 5 views, reducing review time by 40%
- Implemented automated PowerPoint export functionality, allowing sales team to increase pricing by 20% on average

Montaia Global

Sep 2016 – May 2018

Frontend Developer (Contract) | Santa Cruz

- Built event and lodging management platform with React/Redux, increasing event page hits by 300%
- Optimized frontend architecture, shrinking component file size by 3x and raising test coverage to 90%