

TREVOR BEHNKE

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SUMMARY

Full-stack engineer and SaaS founder with 6+ years building production-grade, secure, and performant web apps. Deep in Next.js/React, TypeScript/Node, PostgreSQL (Neon), Redis, Stripe, and OpenAI/Anthropic. Shipped and operated an AI SaaS end-to-end with credits/tier systems, streaming generation, admin analytics, and 150+ automated tests; 99.9% uptime and top Core Web Vitals.

CORE SKILLS

- **Frontend:** React, Next.js (App Router, RSC, SSR/ISR), TypeScript, Tailwind CSS, Zustand, HTML5/CSS3, responsive design
- **Backend:** Node.js/Express, REST APIs, Webhooks, SSE/streaming, PostgreSQL (Neon), SQL, Redis
- **Data/AI/Visualization:** OpenAI API (e.g., GPT-4o), Anthropic Claude, D3.js, Chart.js
- **Auth/Payments:** Clerk, Auth0, Stripe (Checkout, Billing Portal, Webhooks)
- **Quality/Tooling:** Jest, React Testing Library, Supertest, ESLint, Prettier, Postman, Git, GitHub, GitHub Actions
- **Security/Monitoring:** CSP/CORS, OWASP practices, input/file sanitization and quarantine, rate limiting (Redis), audit logging, Sentry
- **Cloud/DevOps:** Vercel, CI/CD (GitHub Actions or Vercel), cron jobs, environment branching (Neon)
- **Accessibility/Performance:** WCAG 2.2/ARIA, Core Web Vitals, Lighthouse

PROFESSIONAL EXPERIENCE

Founder / Full-Stack Software Engineer - BlogSocializer.com (SaaS)

Jan 2023 - Present

- Build and operate an AI SaaS to repurpose blog content across social formats using Next.js (App Router), React, JavaScript/Node, PostgreSQL (Neon), and Vercel; 99.9% uptime and top Core Web Vitals (Real Experience Score 100 on Vercel; excellent Lighthouse scores).
- Implement LLM-powered generation with SSE streaming (OpenAI), credits and tier-based feature limits, and frictionless upgrades; integrate Stripe checkout/portal/webhooks and Clerk auth.
- Reduce infra/API costs 40-60% via SHA256-keyed LRU caching with TTL/invalidation, lazy-loaded SDKs, 20+ DB indexes, and cursor-based pagination; cut dashboard load times 70-80% and DB queries 60% with analytics caching.
- Harden security with Redis-backed rate limiting (progressive penalties and IP allow/block lists), strict CSP/CORS, enhanced input/file validation and quarantine, response sanitization, audit logs, and Sentry monitoring.
- Build an admin analytics dashboard (20+ charts) for content, business, security, and performance with CSV export and session security.
- Testing/quality: 150+ unit/integration tests (Jest/RTL/Supertest), co-located test pattern, CI/CD on Vercel, environment-isolated Neon branches; enforce UTC timestamps and structured logs.
- SEO/a11y: Implement semantic HTML, Open Graph/structured data, and sitemap/robots.

Software Engineer - Crow Insight

Dec 2021 - Jan 2023

- Delivered ~12 data visualization dashboards (JS/Node, D3.js, Python/Flask, Auth0, Heroku), including public-facing EPA projects.
- Built pipelines for data collection/cleaning/storage; shipped accessible, responsive dashboards aligned to stakeholder KPIs; earned repeat client engagements.

API Tester - Usabl.dev (Part Time)*Jul 2021 - Dec 2021*

- Evaluated APIs, SDKs, IDE integrations, and documentation (Postman, VS Code REST Client), providing developer-experience feedback to dozens of companies.

Web Developer - Contractor*Mar 2019 - Dec 2021*

- Built and maintained client websites end-to-end (SvelteKit/JS and WordPress/Wix/Squarespace), owning UX/UI, integrations, deployment, and maintenance.

PROJECTS

- **DayChart:** Full-stack productivity and data-vis app with auth, persistent storage, and billing (React, Firebase, Stripe).
- **Image Comparison Bot** (Crow Insight): Custom QA tool built with Puppeteer and Playwright to compare screenshots, detect pixel diffs, generate reports, and surface issues in a custom UI.
- **NFT/Blockchain Game** (12th place): Minted NFTs as playable characters with on-chain mechanics (React, Solidity, OpenZeppelin, Ethereum).

EDUCATION & CERTIFICATIONS

- B.S., Business Administration (Finance), California State University, Sacramento - 2020
- A.S., Business Administration, Folsom Lake College - 2018 (4.0 GPA)
- *Google Cloud Platform - Professional Cloud Architect* - Active 2020 to 2022
- *Google Cloud Platform - Associate Cloud Engineer* - Active 2020 to 2022
- *Project Management Institute - Certified Associate in Project Management (CAPM)* - Active 2014 to 2019