Trevor Behnke

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SUMMARY

Full-stack engineer with focus on shipping production SaaS applications end-to-end using Next.js, React, PostgreSQL, and Supabase. Proven track record of taking products from zero to production with high ownership: defining solutions from database to UI, testing my own code, and deploying daily. Thrive in ambiguous, fast-moving environments where the goal is to ship A- product at A+ timeline, then come back and make it A+. Agency-driven builder who pushes limits and doesn't wait for permission.

TECHNICAL SKILLS

Frontend Engineering: React, Next.js (App Router, Server Components, SSR/ISR), TypeScript, JavaScript (ES6+), Tailwind CSS, shadcn/ui, Radix UI, Responsive Design, Accessibility (WCAG), Web Performance Optimization

Backend & APIs: Node.js, PostgreSQL, Supabase, Prisma ORM, Python, Express, REST APIs, Serverless Functions, Authentication & Authorization, Webhooks, Neon, Background Jobs & Queues

Data Visualization & AI: Chart.js, Recharts, D3.js, OpenAI API, Anthropic API, Prompt Engineering, Real-Time Streaming

Testing & Developer Tooling: Jest, Supertest, Unit & Integration Testing, HTTP Clients, Git, CI/CD Pipelines

Security & Reliability: OWASP Best Practices, Rate Limiting, Input Validation, Audit Logging, Error Monitoring

Cloud & Deployment: Vercel, AWS, Docker, Google Cloud Platform (GCP), GitHub Actions, Datadog, CI/CD Pipelines, Environment Variables, Secrets Management

PROFESSIONAL EXPERIENCE

Full-Stack Engineer, SpillHub | Aug 2024 - Present

- Took a production web platform from zero to hundreds of users as a solo engineer, shipping new features daily and iterating based on real user feedback.
- Defined and owned the full solution from database to UI: React/Next.js frontend, Node.js APIs, PostgreSQL on Supabase, cloud deployment on Vercel, with no middle managers or handoffs.
- Identified user engagement gaps and quickly shipped new features, increasing participation.
- Shipped Stripe billing, admin/moderation systems, and a daily content engine by deploying working solutions fast, then iterating to polish, balancing "good enough to ship today" with long-term quality.
- Tested my own code end-to-end before every release, ensuring features solved real user problems and maintaining platform reliability as a solo operator with full accountability.

Full-Stack Developer, BlogSocializer | Jan 2023 – Aug 2024

- Built and operated a production SaaS platform end-to-end that serves both internal operations (admin dashboards, analytics) and external customers (self-serve onboarding, content transformation).
- Implemented usage-based billing, real-time AI streaming, and tiered plans, shipping pragmatic solutions that worked well enough to launch, then refining based on real usage data.
- Optimized PostgreSQL queries, added strategic indexing and caching, and implemented pagination to reduce infrastructure costs and keep the product fast as usage scaled.
- Built comprehensive admin analytics and monitoring dashboards to surface operational issues early, maintaining the attention to detail needed to be proud of shipped work.
- Shipped 150+ automated tests with CI/CD-driven deployments, enforced rate limiting and security policies, ensuring high-quality releases without slowing down the pace of daily shipping.

Software Engineer, Crow Insight | Dec 2021 - Jan 2023

- Shipped eight production web applications in a fast-paced, lean team environment, balancing multiple concurrent projects and adapting to evolving requirements without slowing delivery.

- Built and maintained end-to-end data pipelines for ingestion, validation, cleaning, and storage, ensuring reliable, compliance-ready datasets powering public-facing web reports.
- Improved data accuracy and release confidence by strengthening QA/QC workflows and resolving data anomalies and visualization defects before public launch.
- Thrived in ambiguous, multi-project environments by adapting to differing codebases and architectures without clear playbooks, figuring out what needed to happen and executing.
- Collaborated cross-functionally with designers, analysts, and non-technical stakeholders in a fully remote, async-first workflow across multiple time zones.

Quality Engineer, Usabl | Jul 2021 - Dec 2021

- Evaluated production APIs, SDKs, and IDE plugins across dozens of products to identify recurring integration and developer-experience friction points, informing clearer documentation, onboarding flows, and error-handling improvements.
- Diagnosed edge cases and integration failures across diverse API environments, helping teams reduce time-to-first-success and improve reliability for downstream developers.

Web Developer, Contractor | Mar 2019 - Dec 2021

- Delivered end-to-end client websites and web applications across WordPress, Wix, Squarespace, and Shopify, meeting tight timelines while ensuring responsive, cross-browser user experiences.
- Improved site performance and long-term maintainability through targeted theme customization, layout optimization, and simplified content-update workflows, reducing reliance on developer support for non-technical clients.

SELECTED PROJECTS

Image Comparison Bot: Proprietary QA Automation (Crow Insight)

- Designed and built a production-grade visual regression system using headless browser automation and pixel-level comparison, enabling reliable detection of rendering defects across complex, data-heavy dashboards.
- Automated validation of tens of thousands of dashboard states to catch visualization and layout regressions before release, significantly reducing manual QA effort and release risk.
- Generated structured visual-diff reports that accelerated root-cause analysis and tightened feedback loops between engineering and QA teams.
- Deployed and operated the system continuously in a cloud environment, enabling unattended, 24/7 QA runs against production-like builds and environments.

DayChart: Full-Stack SaaS Productivity App

- Created a full-stack SaaS productivity application centered around a novel 24-hour donut-chart visualization, enabling users to intuitively understand how their entire day is allocated at a glance.
- Engineered real-time scheduling metrics (free time, total scheduled time, upcoming events) to surface immediate, actionable insights that improve day-planning clarity and decision-making.
- Integrated AI-driven schedule analysis and recommendations to translate calendar data into behavior-focused feedback, helping users balance routines and avoid overcommitment.

EDUCATION

- **Bachelor of Science** | California State University, Sacramento | 2020
- **Associate of Science** | Folsom Lake College | 2018

CERTIFICATIONS

- **Google Cloud Platform** - Professional Cloud Architect | 2022
- **Google Cloud Platform** - Associate Cloud Engineer | 2022
- **Project Management Institute** - Certified Associate in Project Management (CAPM) | 2019