

# TREVOR BEHNKE

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Portfolio: [trevorab.com](https://trevorab.com)

## SUMMARY

Frontend-leaning full-stack engineer with experience designing, shipping, and operating production SaaS and data-driven web applications. Strong focus on modern frontend architecture with React and Next.js, paired with hands-on ownership of APIs, databases, authentication, billing, and deployment to ensure reliable, scalable systems. Known for delivering accessible, high-performance user experiences with strong attention to reliability and operational efficiency.

## TECHNICAL SKILLS

**Frontend Engineering & UI Architecture:** TypeScript, React, Next.js (App Router, Server Components, SSR/ISR), Modern JavaScript (ES6+), Component & UI Architecture, Server-Driven UI, Client & Server State Management, Async Data Fetching, Web Performance Optimization, Responsive Design, Accessibility (WCAG), Tailwind CSS, shadcn/ui, Radix UI

**Backend, APIs & Data:** Python, Node.js, Express, RESTful API Design & Integration, API Security Best Practices, Authentication & Authorization, Webhooks, Request/Response Validation, Error Handling, Data Modeling, SQL, PostgreSQL, Prisma ORM, Supabase, Neon, Data Caching, Pagination Strategies, Background Jobs & Queues

**Data Visualization & AI Features:** Chart.js, Recharts, D3.js, LLM API Integration (OpenAI, Anthropic), Real-Time Streaming, Prompt Design, AI Feature Guardrails & Cost Control

**Testing, Quality & Delivery:** Unit & Integration Testing, Test Automation, Jest, React Testing Library, CI/CD Pipelines, Git, Postman, ESLint, Prettier

**Security, Reliability & Observability:** OWASP-Aligned Practices, CSP & CORS, Input & File Sanitization, Rate Limiting, Audit Logging, Production Debugging, Error Monitoring

**Cloud & Deployment:** Vercel, Netlify, Firebase, Heroku, Google Cloud Platform (GCP), GitHub Actions, Environment Configuration, Secrets Management

## PROFESSIONAL EXPERIENCE

### Senior Full-Stack Engineer (Founder) — SpillHub

Aug 2024 - Present

- Launched and scaled a production, privacy-first web platform from zero to live users, increasing repeat interaction through intentional UX design.
- Architected and owned the full product stack end-to-end (React/Next.js frontend, Node.js APIs, PostgreSQL, cloud deployment), enabling rapid iteration, reliable releases, and low operational overhead as usage grew.
- Drove higher user participation and reciprocity by implementing gated content mechanics that revealed submissions only after contribution, materially increasing interaction without relying on likes, follows, or virality loops.
- Established a daily prompt system inspired by high-engagement short-form content, encouraging habitual use and consistent return visits through lightweight, repeatable interaction patterns.
- Delivered monetization and operational tooling by integrating Stripe payment flows with transactional safeguards and building internal admin/moderation systems, improving revenue reliability, platform safety, and day-to-day efficiency.

### Senior Full-Stack Engineer (Founder) — BlogSocializer

Jan 2023 - Present

- Designed and operated a production, AI-powered SaaS platform that converts long-form blog content into platform-specific social and newsletter outputs, enabling self-serve onboarding and monetization from day one.
- Implemented usage-based monetization and real-time AI streaming with credit-based limits and tiered plans, enabling frictionless upgrades while tightly controlling inference and infrastructure costs.
- Reduced infrastructure spend by optimizing data access and runtime performance through caching strategies, database indexing, and pagination.
- Improved dashboard performance and scalability by cutting page load times and reducing query volume via query consolidation and analytics caching.
- Strengthened platform reliability, security, and operational visibility by shipping comprehensive admin analytics, enforcing rate limits and security policies, and supporting changes with 150+ automated tests and CI/CD-driven deployments.

### Software Engineer — Crow Insight

Dec 2021 - Jan 2023

- Delivered eight production data-visualization web applications enabling public-sector stakeholders to monitor and communicate EPA-backed environmental data through accessible, decision-ready dashboards.
- 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.
- Sustained delivery across multiple concurrent codebases by adapting to differing architectures and evolving requirements without disrupting timelines or data availability.

- Collaborated cross-functionally and deployed to regulated infrastructure by working closely with designers, analysts, and non-technical stakeholders while meeting strict government security, privacy, and accessibility standards.

#### **API Tester — Usabl**

Jul 2021 - Dec 2021

- Evaluated production APIs and SDKs across dozens of products, identifying integration edge cases and developer-experience gaps that informed documentation, onboarding, and reliability improvements.

#### **Web Developer — Contractor**

Mar 2019 - Dec 2021

- Built and delivered client websites across WordPress, Shopify, and site builders, establishing core frontend, performance, and client-delivery fundamentals.

## **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, Business** — California State University, Sacramento • 2020
- **Associate of Science, Business** — Folsom Lake College • 2018

## **CERTIFICATIONS**

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