

Stefan Bobrowski

Full-Stack Engineer

Jacksonville, AR 72076 • stefanbobrowski1@gmail.com • 203-395-2674
<https://stefanbobrowski.com> • <https://www.linkedin.com/in/stefanbobrowski/>

Professional Summary

Full-Stack Engineer with 10+ years building web applications that drive measurable business growth. Expert in JavaScript, choosing the right architecture for every project: SPAs with Vite and TypeScript, server-rendered SEO apps with Astro, or lightweight vanilla JS with Web Components. Recently specialized in architecting cloud-native AI solutions on Google Cloud Platform using Vertex AI.

Technical Skills

Frontend: JavaScript, TypeScript, React, Vite, Astro, Web Components, Zustand, React Query, Axios, SASS, SCSS Modules, Responsive Design, WCAG Accessibility

Backend: Node.js, Express, REST API, GraphQL, WebSockets, PostgreSQL, Redis, Passport.js, Multer

AI & Agents: GitHub Copilot, Claude, Gemini, Vertex AI, ChatGPT

Cloud: Google Cloud Platform (Cloud Build, Cloud Run, Cloud Storage, Cloud SQL, BigQuery)

DevOps: Git, GitHub, GitHub Actions, Docker

Security: IAM, WIF, Rate Limiting, reCAPTCHA v3, OAuth 2.0, JWT, Helmet, CORS

Analytics & SEO: Google Analytics 4, Google Search Console, Core Web Vitals, SEO Optimization

Visualization: Three.js, React Three Fiber, Drei, D3.js, Chart.js, HTML5 Canvas, WebGL

Design: Figma, Adobe Photoshop, Adobe Premiere Pro

Professional Experience

Frontend Developer, Prepaire Labs

July 2025 - September 2025 | Remote

- Architected and developed Vite + React + TypeScript frontend application in close collaboration with UI/UX lead using Figma
- Established CI/CD pipelines and managed repository infrastructure for frontend production deployment with GitHub Actions and Docker
- Contributed to full-stack architectural decisions including cloud platform selection, API design, and backend integration strategies

Frontend Developer, Camelot SI LLC, SharperImage.com

Sep 2023 - Feb 2025 | Remote

- Implemented CRO-focused UI/UX redesigns across critical e-commerce flows (checkout, cart, login, returns, PIP/PDP) within a Next.js architecture serving thousands of users daily
- Contributed to Bitbucket Pipelines CI/CD workflow across dev, staging, and production; regularly merged PRs, cut releases, and executed early-morning deployments and hotfixes

- Integrated feature flags and A/B tests via Contentful to support dynamic marketing campaigns and business experiments
- Delivered features and bug fixes for the internal dashboard used by warehouse and customer support teams; implemented Git Flow branching strategy and documented deployment process in Confluence
- Consolidated multiple GraphQL requests into a single batched query, reducing API overhead and improving frontend performance
- Reduced frontend bundle size from ~50MB to ~12MB by auditing dependencies, removing unused packages, and optimizing build configuration, resulting in a ~70% build time reduction (10 min -> 3 min)

Software Engineer, The Home Depot

May 2021 - Dec 2022 | Remote

- Led development of "Questions & Answers" component redesign (Figma, React, GraphQL), improving engagement and CTR
- Served as Release Captain; reviewed PRs, wrote release notes in Confluence, and deployed releases to production in a custom pipeline
- Increased test coverage to 100% for several components by transitioning from Enzyme to RTL + Jest
- Onboarded and mentored new engineers on best practices within a large organization

Software Developer, Vibrant Software

July 2020 - May 2021 | Remote

- Architected and led development of the Nomad Portal, a digital asset management platform built with React, Redux-Saga, and a Node.js/Express backend
- Integrated AWS AI services for content facial recognition, automated metadata tagging, and advanced search across rich media
- Built VEP Virtual Stage, a live-streaming platform for virtual events that has been used successfully for live concerts. Features a multi-stream viewing grid, live chat via WebSockets, donation form workflow, and fully configurable content and theme using JSON

Full-Stack Web Developer, Hat Trick Designs LLC

June 2019 - July 2020 | Remote

- Developed full-stack apps with MongoDB and the MERN stack
- Converted React Class Components to Hooks and state management with useContext on the frontend, and backend REST API with Express and Mongoose

Frontend Web Developer, Direct Wines

February 2019 - May 2019 | On-site - Norwalk, CT

- Developed product microsites from designs and customer checkout component for payment API requests (JavaScript, Fetch, async/await)
- Improved SEO and accessibility with metadata and Structured Data markup, allowing for search results to display custom widgets such as reviews and featured links
- Researched and tested emerging frontend technologies such as Web Components, Vue, and React with Hooks for use in future code base

Frontend Web Developer, Kathy Kuo Home

December 2017 - September 2018 | On-site - Harlem, NY

- Prototyped and implemented new features after weighing UI/UX decisions with Design Lead and CEO

- Created sister-site (<https://www.kathykuohome.com/designbar>), successfully displaying business portfolio to clients
- Implemented Google Analytics and Google Optimize A/B tests, resulting in an increased CTR for new UI design changes
- Increased Google PageSpeed Insights score by 300% and reduced average page load time by 3 seconds

Frontend Web Developer, Archi FX LLC, Healthcasts, Finalsite

September 2014 - December 2017 | On-site - Glastonbury, CT

- Archi FX LLC: Led frontend development on new responsive websites (SCSS, Flexbox)
- Healthcasts: Implemented product microsites containing sensitive medical diagnostic information (Node.js, NPM scripts, jQuery, animations)
- Finalsite: Succeeded in a fast-paced Agile environment building many responsive websites for schools globally (SASS, jQuery, custom CMS)

Web Developer Freelancer, oDesk

November 2009 - July 2014 | Remote

- Worked on freelance projects primarily with HTML, CSS, JavaScript, and jQuery, starting with self-taught knowledge in high school.

Education

Bachelor of Science in Computer Science, University of Connecticut

September 2010 - May 2014 | Storrs, Connecticut

Professional Development

September 2025 - Current

- Pursuing Google Cloud Platform (GCP) Professional Cloud Architect certification
- Building cloud-native applications with Cloud Run, Cloud Storage, CloudSQL, BigQuery, and more
- Integrating GCP-native AI services like VertexAI and Gemini for production applications