Stefan Bobrowski, Full-Stack JavaScript Developer

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Professional Summary

Full-Stack JavaScript Developer with over a decade of professional experience building scalable, high-performance web applications. Proficient in JavaScript, React, Node.js, Express, GraphQL, and front-end styling, with hands-on expertise in full-stack cloud development on Google Cloud Platform (GCP). Passionate about writing clean, maintainable code, optimizing performance, and delivering intuitive, user-focused solutions that drive measurable business value.

Technical Skills

Languages & Frameworks

JavaScript, TypeScript, React, Vite, Next.js, Redux-Saga, Node.js, Express, GraphQL, Apollo, MongoDB, Git, CSS, SASS, Jest, React Testing Library, Git

Cloud & DevOps

Google Cloud Platform (Cloud Run, Cloud SQL, Cloud Storage, BigQuery, IAM, Compute Engine), Docker, GitHub Actions, Bitbucket Pipelines, Custom Pipelines, Load Balancing

Architecture & Patterns

REST, GraphQL, Micro-frontends, Server-side rendering (SSR), Web Sockets, Rate Limiting, Component Design Systems, Agile/Scrum, TDD/BDD, A/B Testing

Design & Collaboration Tools

Figma, Jira, Confluence

AI Technologies & Tools

Vertex AI, Gemini 1.5 Pro, GitHub Copilot, ChatGPT

Professional Experience

Frontend Developer, Camelot SI LLC, SharperImage.com

Sep 2023 - Feb 2025

- Spearheaded the redesign of key CRO components—including checkout, cart, login, VIP account, returns portal, and site-wide layout (header/footer)—within a modern Next.js e-commerce architecture.
- Contributed to Bitbucket Pipelines CI/CD workflow across dev, staging, and production; regularly merged pull requests, cut releases, and triggered early-morning deployments and hotfixes.
- Reduced frontend bundle size from ~50MB to ~12MB by auditing and removing unused packages, upgrading dependencies, and optimizing build configs—dramatically improving pipeline reliability and build speed.
- Consolidated GraphQL requests into a single batched query, improving frontend performance and reducing API overhead.
- Integrated Contentful-based feature flags and A/B tests for dynamic marketing campaigns.

- Delivered features and bug fixes for the internal Merchant Center dashboard used by warehouse and customer support teams; implemented a Git Flow branching strategy and documented deployment process in Confluence.

Software Engineer, The Home Depot
May 2021 - Dec 2022

- Led development of "Questions & Answers" component redesign (Figma, React, GraphQL), improving engagement and CTR.
- Served as Release Captain; reviewed PRs, wrote release notes, and deployed to production.
- 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

- Led development of the Nomad Portal, a content management system using React + Redux-Saga and powered by AWS AI/ML services. Featured dynamically generated rich asset metadata and tags, advanced search with filters, and content facial recognition.
- Built VEP Virtual Stage a live streaming platform that has been used successfully for live virtual events and concerts. Featured multiple stream support, live chat, donation form, and fully configurable content from JSON.

Full-Stack Web Developer, Hat Trick Designs LLC
June 2019 - July 2020

- Developed full-stack apps with the MERN stack.
- Frontend React with Hooks and state management with useContext, backend REST API with Express and Mongoose.

Front-end Web Developer, Direct Wines
February 2019 - May 2019

- Developed product microsites and customer checkout component for creating, retrieving, updating, and deleting payment methods (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 front end technologies such as Web Components, Vue, and React with Hooks for use in future code base.

Front-end Web Developer, Kathy Kuo Home
December 2017 to September 2018

- Prototyped new features and weighed 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 click-through rate for new UI design changes.
- Increased Google PageSpeed Insights score by 300% and reduced average page load time by 3 seconds.

Front-end Web Developer, Archi FX LLC, Healthcasts, Finalsite
September 2014 - December 2017

- Archi FX LLC: Led front end development on new responsive websites (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 2007 - July 2014

- Worked on various freelance projects primarily with HTML, CSS, and JavaScript.

Projects

Cloud Playground - Upload Center, Full-Stack GCP Application
February 2025 - April 2025

Designed, developed, and deployed a full-stack web application on Google Cloud Platform for secure file uploads, AI-powered sentiment/image processing, and big data analysis. Built with production-grade security best practices.

- Live App: https://upload-center-177749780343.us-central1.run.app
- Source Code: https://github.com/stefanbobrowski/upload-center

Tech Stack:

- **Frontend:** React (Vite + Typescript)
- **Backend:** Node.js + Express
- **AI**: Vertex AI, Gemini 1.5 Pro
- **Security:** Google IAM, reCAPTCHA v3, Helmet, CORS, IP logging, and global & route-based rate limiting
- **Database:** Cloud SQL (PostgreSQL)
- **Storage:** Google Cloud Storage
- **Big Data:** BigQuery
- **Build & Containerization:** Docker
- **CI/CD:** GitHub Actions
- **Hosting:** Cloud Run, Artifact Registry

Education

Bachelor of Science in Computer Science, University of Connecticut
September 2010 - May 2014