

Steven Bennett

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Seasoned software engineer seeking a challenging senior role to provide value through thought leadership, extensive experience, and a broad skill set that includes frontend and backend development, cloud infrastructure design, and knowledge of best practices in code quality, maintainability, and readability.

Skills and Proficiencies

Agile & Project Management

- Certified Scrummaster with a focus on maximizing value for stakeholders.
- Can efficiently lead sprint ceremonies for productive engineering cycles.

Development Experience

- Expertise in HTML, CSS/Tailwind CSS, and ReactJS for building accessible, responsive, and performant frontend applications.
- Experience constructing pixel-perfect UI from designs created in prototyping tools like Figma.
- Extensive experience with Next.js; including Next.js 13 with App Router.
- Experienced in writing reliable and secure Web services, WebSocket servers, and worker queues.
- Skilled in implementing typesafe GraphQL APIs for efficient data querying and manipulation.

Code Quality & Testing

- Knowledge of optimum configuration for linting/formatting tools like ESLint, Stylelint, and Prettier.
- Highly proficient in TypeScript to enhance code reliability and reduce errors in production.
- Well-versed in SOLID, functional programming, and other design patterns.
- Experience with Jest, Vitest, Playwright, and other testing tools.

Development Tools & Environment

- Deep understanding of mono-repository management and tooling like PNPM and Turborepo.
- Experience using bundling tools like ESBuild and SWC for the optimization of client/server libraries.

CI/CD & DevOps

- Experience with Docker and Docker Compose for container orchestration.
- Proficient in GitHub Actions, Jenkins, and CircleCI.
- Have reduced deployment times by as much as 80% through pipeline optimization.

Cloud Infrastructure

- Extensive experience with cloud providers like Amazon Web Services, Google Cloud, and Azure.
- Proficient in CloudFormation, AWS CDK, and Terraform for infrastructure orchestration and management.

Other Technical Skills

- Linux/Unix OS, Python, shell scripting, and process automation.

Work Experience

Houghton Mifflin Harcourt Senior Engineer

November 2022 – November 2023

- Tasked with the migration and unification of the legacy “School/Class/Student Profile” report applications to a single Next.js 13 application.
- Migrated and refactored existing code following best practices and patterns including SOLID principles, to create highly composable, single-focus components with context providers/consumers, and hooks.
- Gained valuable experience implementing the core features and functionality of Next.js 13 and led initiatives to implement new patterns such as the App Router, Server Components, and Server Actions.
- Utilized broad experience in application/service release pipeline automation to solve issues with long build/release times using various methods like optimization of layers in Docker container definitions, utilizing dependency store caches, the caching of both task orchestration artifacts and their inputs to prevent running pipeline jobs needlessly, and CI job caching in BitBucket.

Jaguar Senior Engineer

October 2022 – July 2023

- Sole engineer embedded in the Design/UX Research organization responsible for building a Web application that enables designers and UI/UX researchers to embed prototypes created in various tools such as Proto.io and Figma, and capture user interactions for analysis.
- Designed and built a highly scalable, full stack Web application, along with accompanying backend services, using VS Code Dev Containers for consistent development environments, PNPM for mono-repository workspace tooling, Turborepo for task orchestration, Docker Compose for local development, Vite/React/Tailwind on the frontend, and Express/Prisma/GraphQL on the backend.
- Utilized deep understanding of foundational Web technologies such as the HTTP protocol, iframes, cookies and nginx reverse proxies, to extend the functionality of the prototyping tools and implement a novel solution that went far and beyond the expectations of the product team.
- Automated the previously manual process of importing, processing, and uploading of prototypes, which eliminated the need for two roles, allowing those team members to focus on more valuable work.

Nike Senior Engineer

April 2021 – March 2022

- Acted as the sole engineer on team in the innovation organization, responsible for the creation of a Web application used by product teams at Nike to understand and quickly find information about the organizational structure and taxonomy of any team in the company.
- Designed, documented, and built a highly scalable, performant Web application and supporting services using a Node.js, Typescript, Vite.js, React, and GraphQL application stack running on an AWS ECS (Fargate)/ECR, AppSync infrastructure defined in and managed by CloudFormation templates.
- Used React and styled-components along with optimized CSS animations to build an elegant and user-friendly frontend application that followed and adhered to usability and accessibility best practices.

- implemented a mono-repository via PNPM workspaces and Turborepo, along with the latest tools and libraries to enable an easy to setup and use development environment and automated CI pipelines to support rapid feature releases.

AppLab

July 2021 – Current

Founder

- Founded AppLab to streamline common and repetitive engineering tasks through 1-Click creation and management of environments, bootstrapping of application and services projects, automating the creation and management of infrastructure, and supporting data-driven business growth via user analytics, UX experiments, and customer outreach tools.
- Authored over 30 open-source libraries, including a CLI tool to compile TypeScript apps, services, and libraries to ESM with support for code splitting, tree shaking, and CJS/UMD for backward compatibility. It also transpiles data models and generates type definitions, Redux state logic, an HTTP client, Sequelize models, and an API server with CRUD endpoints to automate the creation and management of the application/data state independent from the view layer.
- Created tooling and deployment pipelines to automate secret management and injection, DNS management, CDN caching/invalidation, and user authentication.
- Built template repositories for the rapid creation of Machine Learning services, Web Socket servers, APIs, Webhook handlers, and other common types of backend services.

Nike

March 2019 – April 2021

Senior Engineer III

- Frontend engineer using Typescript and React.js to build Machine Learning-driven chat application on the Twilio platform used by the “Nike Experts on Demand” team to support and engage high-value customers.
- Leveraged "CSS-in-JS" libraries such as *styled-components* to construct responsive, pixel-perfect UI components from *Figma* designs provided by the design team. Used extensive knowledge of CSS to achieve smooth, high-quality UX and animations.
- Worked closely with backend and mobile teams to design solutions, define contracts, and prioritize sprint work.
- Authored unit tests using *Mocha/Chai*, component rendering assertions using *Jest* and *react-testing-library*, and functional tests with Cypress.
- Maintained highly-effective relationships with the Product Owner and larger business organization to refine and prioritize stories in the product backlog, resolve design anomalies or external dependencies, and validate business hypotheses via A/B experiments.

Nike

May 2016 – February 2019

Lead Engineer

- Led a team of three engineers on a project to redesign and migrate the Nike customer support sites off the Oracle CX Customer Portal platform to a single AWS cloud-hosted Web application written in React.js
- Collaborated closely with the Product Owner to create and refine stories in the product backlog, ensured tech debt was captured and prioritized, managed inter-team dependencies, and mentored junior engineers.
- Tasked with migrating 48 separate code bases written in PHP, with no source control, or unit testing, and changes had to be manually uploaded to the Web server via WebDAV; to a Node.js project with source control, and Jenkins CI/CD pipelines that ran had stages for running tests, bundling code and deployment to AWS ECS Fargate services.

- Successfully converted and unified Get Help sites into a single Git repository with 70% code coverage, localization, and internationalization built-in, and deployment pipelines that saved hundreds of developer hours.

Oracle
Demo Site Architect

May 2012 – May 2016

- Built consumer-facing customer service and support sites using HTML, CSS, JavaScript, and PHP/CodeIgniter on the Oracle RightNow CX platform, to demonstrate the product's features and functionality to prospective customers.
- I worked in the sales organization, building product sales demo sites according to requirements provided by Solution Consultants.

Training and Certifications

- Scrummaster certified
- Attended ReactTraining.com React Workshop
- Completed Salesforce Developer Training
- A+ certified