

ABHISHEK BARVE

SOFTWARE DEVELOPMENT ENGINEER | FRONTEND & BACKEND ENGINEERING | REACT, RUBY ON RAILS, FASTAPI, AI INTEGRATION

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PROFESSIONAL SUMMARY

Frontend-heavy Software Engineer with ~5 years of experience building scalable web applications, real-time systems, and modern frontend architectures using React, TypeScript, and related technologies. Experienced in performance optimization, component-driven development, accessibility (WCAG 2.1 AA), and scalable UI engineering. Complemented by practical backend experience with FastAPI, Ruby on Rails, REST APIs, and AI-driven workflows including streaming responses, API orchestration, and LLM integration.

CAREER HIGHLIGHTS

- Built scalable frontend applications using React, TypeScript, and modern frontend tooling.
- Developed real-time streaming interfaces using Server-Sent Events (SSE) for interactive application workflows.
- Improved application accessibility using semantic HTML, ARIA roles, focus management, and keyboard navigation aligned with WCAG 2.1 AA standards.
- Contributed to frontend modernization through Vite migration, React upgrades, and performance-focused optimizations.
- Strengthened application stability through bug resolution, testing improvements, and code review contributions.

CORE COMPETENCIES

- Frontend Development, Backend Development, REST API Development
- API Orchestration, AI Integration, Async Workflows, Streaming Workflows
- Validation, Pagination, Error Handling, Deployment Workflows, Code Reviews

WORK HISTORY

India, 05/2021 - Current

Bluesapling Technologies

Software Development Engineer | May 2023 – Present

- Developed real-time streaming chat interface using Server-Sent Events (SSE) with EventSource, including reconnect and retry handling, for AI-driven workflows.
- Migrated build system from Webpack to Vite and led React 16→18 and TypeScript upgrades, improving build speed and dependency health.
- Improved Lighthouse score from ~65 to 85+ and reduced bundle size by ~20–30% through code splitting, lazy loading, and dependency cleanup.
- Improved accessibility through semantic HTML, ARIA roles, keyboard navigation, and WCAG 2.1 AA compliance initiatives.

Senior Application Developer | May 2022 – April 2023

- Contributed to FastAPI backend services supporting AI chatbot functionality, including async workflows, streaming responses, API orchestration, and LLM integration.
- Built and maintained Ruby on Rails REST APIs with validation, pagination, error handling, and deployment workflow support.
- Rebuilt frontend modules from Figma specifications with responsive layouts and reusable UI patterns.
- Mentored junior developers and participated in code reviews to improve engineering quality and delivery consistency.

Application Developer | May 2021 – April 2022

- Designed and built a modular learning platform UI using reusable component patterns, custom hooks, and scalable frontend architecture.
- Strengthened application stability through bug resolution, code review contributions, and expanded test coverage from 20% to 60% using Jest, React Testing Library, and Cypress.
- Fixed 100+ defects and delivered feature enhancements improving usability and responsiveness across critical workflows.

CERTIFICATIONS

- The Joy of React – Josh W. Comeau
- CSS for JavaScript Developers – Josh W. Comeau
- Build an AI Agent from Scratch – Scott Moss

EDUCATION

Bachelor of Technology : Computer Science, 2021

J D College of Engineering And Management - India

PROJECTS

OCR Document Formatter | Django, LLM | August 2025

- Built an OCR document reformatter using Azure Document Intelligence to extract structured text from printed and handwritten documents.
- Leveraged LLM-based processing to reorganize, normalize, and export content into clean, prompt-driven Markdown output.

Story Generator | Next.js, Tailwind, OpenAI | October 2025

- Developed an AI-powered story generation platform allowing users to define characters, lore, world rules, and narrative constraints.
- Utilized OpenAI models to generate coherent story scenes and context-aware narrative progression.

Component Library | React, Tailwind CSS, GSAP | August 2025

- Built a lightweight React component library covering commonly used UI primitives with accessibility-first design principles.
- Implemented ARIA-compliant interactions, keyboard navigation support, responsive behavior, and reusable variant-driven styling patterns.
- Designed composable APIs enabling rapid integration and consistent user experiences across applications.

TECHNICAL SKILLS

- Programming Languages:** JavaScript, TypeScript, Python, SQL, HTML/CSS
- Frontend Technologies:** React, Next.js, Tailwind CSS, Redux, Zustand, TanStack Router, TanStack Query, Visx
- Backend & AI:** FastAPI, Django, REST APIs, LLM Integration
- Developer Tools & Platforms:** Git, Vite, VS Code, Cursor, Claude, Azure, AWS EC2, AWS S3

ADDITIONAL INFORMATION

- Languages:** English, Hindi. | **Preferred Work Location:** Open to relocation.
- Soft Skills:** Collaboration, Problem Solving, Ownership, Communication.