

Vaibhav Kumar Rai

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PROFILE

Senior Software Engineer with 7+ years of experience building scalable SaaS products using React, Next.js, TypeScript, FastAPI, and modern frontend architecture. Experienced in design systems, performance optimization, testing, and leading large-scale frontend migrations.

SKILLS

Frontend: React.js, Next.js, Vue.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, REST APIs, Redux, React Query, Zustand, responsive Design, Accessibility (a11y), Cross-Browser Compatibility

Testing: Jest, Cypress, Storybook

Architecture: SSR, SSG, Design Systems, Nx-Monorepo, i18n, Performance Optimization, Component Libraries, Micro Frontends

Backend: FastAPI, Python, PostgreSQL, NoSQL, Retrieval Augmented Generation, Telemetry, Langfuse, Grafana, Swagger

Tools: Git, CI/CD, Webpack, Vite, Jira, AWS

CERTIFICATES

DeepLearning.AI: 📄 Neural Networks and Deep Learning

DeepLearning.AI: 📄 Machine Learning

Google: 📄 Foundations of Project Management

Google: 📄 Project Initiation: Starting a Successful Project

PROFESSIONAL EXPERIENCE

Scrut Automation 📄, Senior Software Engineer - Frontend

06/2024 – 06/2026 | Remote

- Scaled the web app by rearchitecting and building our UI design system for multiple modules. Implemented virtualization and a real time, reusable table for live and data heavy views and then used code splitting to cut the initial bundle size and improve load performance.
- Owned the React frontend architecture for our core security products (findings, vulnerability management), making technical calls, reviewing code, and coordinating releases as the senior engineer on the pod.
- Built the dashboards that surface security findings and incidents, helping customer teams resolve issues faster.
- Integrated PostHog and worked closely with PMs and designers to scale UX and add business-level signals and analytics.

Kami Vision India 📄, Senior Software Engineer - Frontend

11/2022 – 03/2024 | Bengaluru

Kami Cloud (B2C)

- Rewrote a Vue.js application in React.js and built a reusable design system with Storybook and custom theming, enabling faster UI development.
- Added responsive design, internationalization, code splitting, lazy loading, and Stripe payments; wrote integration tests, which improved application performance and reduced bugs; contributed to sprint planning and releases, helping the team meet delivery timelines.

Internal Dashboard (B2B)

- Built a Next.js dashboard with SSR and SSG for organizations and created TypeScript transformers to normalize API responses, streamlining data handling and reducing integration effort for developers.
- Set up a shared design system and testing approach for internal teams, standardizing UI components and improving test coverage, which accelerated onboarding of new developers

Mikyway AI 📄, Freelance Frontend Developer

08/2022 – 10/2022 | Remote, India

- Developed a dashboard to automate stock replenishment and provide real-time insights into retail operations

Quizizz 📄, Freelance Frontend Developer

12/2021 – 07/2022 | Remote

- Contributed to the migration from Krafy to Nuxt and built complex UI components

Klinify 📄, Frontend Developer

11/2019 – 09/2021 | Remote, India

- Cut dashboard load time by 45% through memoization, API optimizations, and code splitting. Added internationalization, Flask APIs, and CouchDB map-reduce transformations.
- Built a configurable design system with clinic-specific branding, themes, and layouts. Used SSR and SSG to handle dynamic content and improve SEO.

Appknox 📄, Frontend Developer

05/2019 – 10/2019 | Bangalore, India

- Built an Ember.js web interface for executing and managing multiple application security scans, enabling customers to run several scans in parallel rather than one at a time — improving scan throughput and reducing overall turnaround time.

Squadcast 📄, Software Developer Intern

12/2018 – 04/2019 | Bangalore, India

- Worked as a Software Developer Intern on the SquadCast platform (React.js front-end, Node.js back-end). Built a bidirectional sync between Slack and SquadCast's chat for real-time updates; wrote Enzyme tests across the front-end; implemented serverless/Kubeless microservices; and set up an Artifactory registry for private npm packages.

Google Summer of Code 📄, Student Developer

05/2018 – 08/2018

- Developed a Python tool that can jump directly into an analyzer's code and move through it using a debugger interface such as pdb, and make debugging of analyzers as easy as writing the analyzers.

INTERESTS

Codepen 📄

CSS-only Art Gallery

Opensource 📄

Contributed to Svelte.js

EDUCATION

B.Tech in Computer Science and Engineering, Shri Mata Vaishno Devi University

2015 – 2019 | Jammu, J&K