Vaibhaw Kumar Mishra

Full Stack Developer · Software Engineer

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SUMMARY

Full-stack engineer with 4+ years building web apps, REST APIs and LLM features in **Next.js**, **React**, **TypeScript**, **Node.js**, **Python** and **Laravel**. Core ZipWP engineer at Brainstorm Force, with 452 merged PRs.

PROFESSIONAL EXPERIENCE

Software Engineer · Brainstorm Force — Jul 2025 - Present

- **AI Site Builder 2.0:** Took over its front end and built the variant for its 30% A/B launch, with PostHog funnels tracking completion; added voice input, page selection and default feature bundles for 2,251 business types.
- **AI output quality:** Fixed silent copy loss in AI Site Planner builds, where 246 of 1,427 generated sentences never landed, lifting placement to nearly 100% across 180 blocks; moved Improve Using AI to Gemini.
- **Analytics:** Instrumented builder funnels in PostHog, then build, credit and conversion events in ClickHouse after the migration, with failure tracking across 5 site-build flows and UTM attribution through OAuth signups.
- **Agentic AI:** Designed and built ZipAI, ZipWP's in-app agentic site builder, end to end in Laravel and Next.js: a function-calling LLM agent with 15 tools and 8 interactive chat widgets, streamed over SSE, with 500+ tests.
- **Quality and releases:** Wrote 780+ of the web app's 1,234 test cases and 681 API PHPUnit tests, set up its Playwright end-to-end suite, reviewed 680+ PRs, ran releases for 5+ repos and upgraded Next.js 13 to 15.

Software Developer · SAN Innvotech — Feb 2025 - Jul 2025

- **Full-stack:** Built Python (FastAPI) and TypeScript (Express, Next.js) web apps and integrated AI features into them.
- **Backend:** Implemented AES-256-CBC encryption and Vault; managed versioned APIs and WebSockets.

Associate Software Developer · Appstone Private Limited — Jun 2023 - Feb 2025

- **ImGrows:** Built features for a MERN ESG and green-finance platform, with real-time AI tools over Socket.IO.

Full Stack Developer · Freelance — Aug 2022 - Jun 2023

- **E-commerce:** Built and deployed EcomBidding, a MERN store with live Socket.IO auctions and PayPal checkout.

PROJECTS

Portfolio (Site, API and CMS) · Next.js 16, React 19, Express 5, TypeScript, Zod, MongoDB — vaibhaw.vercel.app
Designed and shipped three separately deployed apps: a Next.js site, a typed Express + Zod REST API with 350+ test assertions and an admin CMS with instant publishing, behind Google OAuth (PKCE), TOTP 2FA and audit logs.

Whisprl · React, Redux Toolkit, Node.js, Express, MongoDB, Socket.IO — whisprl.netlify.app
Real-time chat app with live presence, JWT auth over REST and WebSockets, OTP verification and 3 social logins.

Chromaleon Theme · TypeScript, Preact, VS Code Extension API — VS Code Marketplace
Published VS Code extension: 22 contrast-checked themes and a live customizer with one-click contrast fixes.

SLDP · React, TensorFlow.js, Python, OpenCV — sldp.netlify.app
B.Tech capstone: real-time, in-browser sign-language detection from a webcam feed, translated into English words.

SKILLS

Coding Languages: JavaScript, TypeScript, Python, PHP, SQL
Frontend: HTML, CSS, React, Next.js, Redux Toolkit, Tailwind CSS, shadcn/ui, Material UI
Backend: Node.js, Express, Laravel, FastAPI, REST APIs, WebSockets, SSE, Job queues, Microservices, WordPress
AI: LLM function calling, Agentic workflows, Prompt engineering, Gemini, Claude Code, AI-assisted development
Data and Cloud: MongoDB, MySQL, PostgreSQL, ClickHouse, Docker, AWS S3, Vercel, Netlify
Testing and Tools: Unit and end-to-end tests, PHPUnit, Jest, Playwright, GitHub Actions CI/CD, PostHog, Sentry

EDUCATION

Bachelor of Technology (B.Tech), Computer Science and Engineering · GITA, Bhubaneswar — 2018 - 2022

- **Highlights:** 2nd place, Startup Odisha competition; conducted workshops on web development and cybersecurity.

CBSE Class XII (PCM with CS), Oxford Public School, Ranchi, 2018
CBSE Class X, Greater Triveni Public School, Lohardaga, 2016