Ashish Tiwari

Fullstack Developer - Frontend Heavy

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Software Engineer with 5+ years of experience in full stack development, specialising in almost all mordern Javascript framework and techologies. Always worked in fast paced, startup environments with experience in all mordern developer tooling, and automation, with a passion and to work on apps from scratch to deployment, while also maintaining, and improving existing projects to ensure scalibity and performaexperiencence. Team player, enjoys working in a team and excel at contributing effectively through collaboration and knowledge sharing.

Work Experiences

1. Novo Studio (Javascript Developer)   2021 - PRESENT

 At Novo Studio, I worked extensively on React, AWS, Hasura, and Skyspark-related projects, building dashboards,interactive components, and data visualization tools for the building automation sector. My work included developing a React-based dashboard powered by Hasura, designing a component library for querying Skyspark's Axon database, and implementing Svelte-Flow for investment visualization. I also built a feature-rich ChatGPT-like interface. Additionally, I explored side projects like a Figma plugin for SVG manipulation, VS code plugins, custom Skyspark tools, and 3D modeling with Three.js and Spline.

Project 1: Floorplan 3D

- Developed a Floorplan3D app to import and visualize floor plans from SVG and raster images.
- Implemented SVG parsing and rendering using Konva.js with interactive editing features
- Enabled SVG export in various formats with support for grouping and path conversion
- Integrated Three.js to extrude and render 2D floor plans into interactive 3D scenes.
- Built GitHub Actions workflows to generate static Nuxt.js builds, upload to S3, and deploy via AWS Amplify
- Tech Used: JavaScript, Nuxt.js, Konva.js, Three.js, AWS Lambda, OpenAI API, GitHub Actions, S3, Amplify, SVG, HTML5 Canvas.

Project 2: Building Automation Dashboard

- Developed a ReactJS dashboard consuming Hasura's GraphQL API hosted on AWS.
- Implemented dynamic search, interactive charts, and energy consumption analytics.
- Built a utility bills tracking system and a kiosk for energy performance visualization.
- Used Redux for state management and integrated axios for API calls.
- Tech Used: ReactJS, Hasura GraphQL, AWS (RDS, IAM, Policies), Redux, D3.js, Chart.js, ObservableHQ, TailwindCSS

Project 3: Internal Component Library

- Collaborated in a team of 4 to develop a reusable component library for internal use.
- Designed components to query Skyspark's Axon database and return data in Haystack schema.
- Built and tested components using RTL and integrated them with Storybook.
- Created documentation using NextraJS and customized Ant Design components.
- Tech Used:ReactJS, Storybook, Axon Query Language, Haystack Schema, RTL, TailwindCSS, SCSS, Ant

Design, Nextra

Project 4: AI-Powered Chat Interface
- Built an interactive chat interface that renders structured responses like forms, markdown, charts, and images.
- Implemented dynamic content rendering, enabling AI-generated responses to include code execution, embedded videos, and flow diagrams.
- **Tech Used:** Next.js, React, OpenAI API, Tailwind, Markdown, WebSockets

Side Projects & MVPs

- Developed a **Figma plugin** to draw SVG on canvas using React and the Figma Plugin SDK.
- Built various **mini-apps and kiosks** extending Skyspark's capabilities for the BAS industry.
- Worked with multiple **CMSs** like Sanity, PocketBase, and Supabase for content management and backend solutions.
- Gained hands-on experience with **LLMs** like OpenAI, Claude, and Ollama, exploring their APIs and advanced features.

2. Hypermine (Frontend Developer)   March 2021 -September 2021

Worked as a **Vue.js developer** to build a **whitelisting platform** for crypto token distribution. Integrated **Twitter and Telegram APIs** for user authentication and developed an **admin panel** for managing participants. Focused on optimizing the frontend to handle high traffic during live events.

Project 1 : Hypermine whitelisting platform

- Built a **whitelisting platform** with a multi-step verification process using OTPs from **Twitter & Telegram APIs**.
- Developed an **admin panel** with **search, sorting, and XLS export** for managing whitelisted users.
- Optimized the frontend for **scalability and high traffic** during live events.
- **Tech Used:** Vue.js, Telegram API, Twitter API, MongoDB, XLS Export, TailwindCSS

3. Kayadev (Junior Javascript developer)   March 2020 - March 2021

Gained hands-on experience in corporate workflows, GitHub collaboration, and soft skills while working in a fast-paced startup environment. Built landing pages, UI for an online class management system, and a live heatmap dashboard
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Project 1: Online Class Scheduling Platform

- Developed the **UI for an online time and period management system**, enabling teachers to schedule and invite students to live classes.
- Integrated **Zoom SDK** for in-app live video sessions with **automatic attendance tracking**.
- **Tech Used:** React, SCSS, Redux, MongoDB, Zoom SDK

Project 2: Live Heatmap Dashboard

- Built a **real-time heatmap dashboard** allowing access to **camera feeds** with live temperature tracking.
- Developed APIs using **Mongoose** to manage camera data, including creation, assignment, and retrieval.
- **Tech Used:** React, Redux, MongoDB, Mongoose, Electron, Cordova, Ionic

Personal Projects

Invoicing & Billing Application

- Multi-role system: Owners can create managers, and managers can generate invoices & quotations.
- Managers can create & edit product listings, generate PDFs for quotations, and convert them into bills.
- Bills support full/partial payments with detailed breakdowns (cash, online, pending).
- Owners have an overview of all transactions, with permissions to manage managers, quotations, and bills.
- **Tech Used:** SvelteKit, MongoDB, Vercel

Chess Game with WebSockets

- Built to understand real-time WebSocket communication and room-based setups.
- Players can join a game by entering their name and sharing a unique link with their opponent.
- Moves are synced in real-time using WebSockets, ensuring both players see the same board state.
- **Tech Used:** NextJS, WebSockets, Node.js/Express.js, DigitalOcean

Find me building me a lot of other hobby projects while I dive more deep into the tech world, by following me on my github at https://github.com/ashishtwr314 or on my portfolio at https://ashtwr.vercel.app

Education

Shri Shankracharya Technical Campus   2016 - 2020
- Bachelors of Engineering - 7.5 CGPA - Information Technology

Skills Summary

From frontend to backend to DevOps, I have worked across the full stack—building dynamic UIs, designing scalable APIs, managing databases, and setting up CI/CD pipelines. Experienced in real-time systems, API integrations, authentication, and cloud deployment, with a strong focus on performance and scalability.

- **Frontend**
  - **Frameworks and Libraries:** React, Next, SvelteKit, Vue
  - **State Management:** Redux, Zustand, React Query
  - **Styling:** Tailwind, SCSS, CSS Modules
  - **Component Libraries:** Bootstrap, MUI, AntD, Radix UI, ShadCN
  - **Rendering and Performace:** SSR, SSG, CSR
  - **Real Time and Interactive UIs:** Websockets, 3.js Svelte-Flow, D3, Chart.js, Mermaid etc
  - **Testing:** React Testing Library, Jest
  - **Other:** Monaco Editor, Figma Chrome,VSCODE plugin development, CMSs (Sanity, Pocketbase, Supabase, Firebase)
- **Backend**
  - **Frameworks:** ExpressJS, NestJS
  - **Databases:** MongoDB, PostgresQL, MySQL
  - **ORMs:** Mongoose, Prisma, Sequelize
  - **Auth & Security:** JWT, 0Auth, Role Based Acces tokens, Sign in using third party apps
  - **API & integration:** REST, GraphQL, Websockets, Third party APIS
  - **File Handling:** AWS S3, Cloudinary, ImageKit etc
  - **Other:** OpenAI API, Claude API, Ollama, LLM Integration

- **DevOps & Deployment**
  - **Cloud Providers**: AWS (Amplify, RDS, S3, EC2, API gateway, Lambda, Lightsail), Vercel, Netlify, DigitalOcean
  - **CI/CD:** Github Workflows/Actions, Docker
  - **Version Control:** Git, Github, Gitlab
- **Others:** Vite, Cordova, Ionic, React native, Notion, JIRA, Slack, Figma