

Pratima Yadav

Senior Software Engineer | Frontend Engineer

+91 6388468102

pratimayadav0402@gmail.com

linkedin.com/in/pratima-ya

WORK EXPERIENCE

Gnani.ai

Feb 2025- Present

Software Engineer

- **AI Product Launch (Vachana.ai)**: Independently architected and launched Vachana.ai, a real-time AI speech platform, showcased at the **India AI Summit 2026** in the presence of **Prime Minister** Narendra Modi, enabling live **multilingual** AI voice interactions.
- **Real-Time AI Infrastructure (Vachana.ai)**: Engineered **low-latency** speech translation pipelines using **WebSockets**, enabling live speech translation across 10+ languages and powering **real-time** conversational AI interactions.
- **Streaming Speech Systems (Vachana.ai)**: Designed and implemented **real-time speech-to-text** streaming pipelines, enabling near-instant voice AI responses and continuous audio processing.
- **Frontend Architecture (Vachana.ai)**: Built a scalable React + TypeScript frontend architecture using **Material UI**, implementing **pixel-perfect** UI, reusable **design systems**, and light/dark themes for AI platform interfaces.
- **AI Monetisation Platform (Vachana.ai)**: Designed and implemented a **credit-based AI token billing** system, enabling **usage-based** monetisation and controlled access to AI services.
- **Analytics Platform Engineering (Aura.ai)**: Architected and built the Aura.ai **Analytics Dashboard** from scratch, delivering **20+ interactive visualisations** analysing **4M+ AI call records** to support enterprise monitoring and operational insights.
- **Frontend Performance Optimisation (Aura.ai)**: Improved dashboard performance by reducing redundant API calls and rendering overhead through **custom React hooks**, **caching** strategies, and **modular** service layers.
- **Platform Infrastructure & Analytics (Inya.ai)**: Implemented **Mixpanel analytics** instrumentation and built **Keycloak-based OAuth** authentication systems, enabling secure identity management and behavioural insights across **multiple AI products**.
- **Engineering Leadership & Reliability**: Led and mentored a **team of 4+** engineers while improving **production** stability through React **Error Boundaries**, **Sentry** monitoring, and structured **TypeScript** architecture standards.

Buzzworks Business Services

Nov 2023- Feb 2025

Software Engineer

- **Leadership & Project Architecture**: Spearheaded frontend development, **leading a team** to deliver scalable, high-quality features. Built projects using **Next.js**, **React.js**, **Tailwind CSS**, **Nest.js**, and **TypeScript**, ensuring a robust, maintainable, and **type-safe** codebase.
- **State Management & Performance**: Optimized state management using **Redux Toolkit** and custom hooks, enhancing **modularity** and reducing state complexities.
- **Performance Optimization**: Enhanced application performance using **React hooks** like memo, **useMemo**, and **useCallback** to avoid unnecessary re-renders. Implemented **lazy loading**, code splitting, and **dynamic imports** to reduce initial load times and improve runtime efficiency.

- **Authentication & Security:** Integrated **AWS Cognito** for secure **user authentication**, incorporating JWT and **OAuth2 token-based** workflows. Developed **OTP-based authentication** and code-based login flows, ensuring seamless, **secure session** management, including **token refresh mechanisms** and multi-factor authentication (**MFA**) for enhanced **security**.
- **CI/CD & Deployment:** Established automated pipelines using **AWS CodeCommit**, CodePipeline, and **CodeDeploy** for seamless deployments to **AWS EC2**, accelerating release cycles and minimizing manual errors.
- **API Resilience:** Improved system reliability by handling **API failures** gracefully, ensuring **smooth user experiences** even during backend disruptions.
- **UI/UX Design & Interactivity:** Designed clean, **responsive UIs** with engaging **micro-interactions**, enhancing user satisfaction and engagement.
- **Complex Feature Development:** Delivered intricate features like **nested questionnaires** and **animated graphs**, simplifying complex workflows and empowering users with intuitive tools.

Spottabl

June 2021 - Nov 2023

Software Engineer

- **Feature Development & Customization:** Led the development of **dynamic SaaS** form-based features, enabling **personalized** job postings and increasing recruiter **engagement**.
- **Micro-Frontend Architecture:** Built a job **analytics dashboard** with **dynamic charts** using a **micro-frontend** architecture, ensuring modular, scalable updates.
- **Compliance & Onboarding:** Led the development of **KYC** and **bank verification modules**, ensuring regulatory compliance and streamlining **user onboarding**.
- **Real-Time Communication:** Integrated a **real-time chat** platform using **CometChat SDKs**, improving in-app communication and fostering **seamless** user interactions.
- **User Behavior Analytics:** Utilized **Mixpanel** to track user activity, implementing **features based** on insights that increased user engagement and **retention**.
- **Frontend Optimization:** Enhanced system performance with **React.js** and **GraphQL**, reducing **load** times and ensuring a **smooth, responsive** user experience.

SKILLS

Languages: JavaScript (ES6+), TypeScript, , Python

Frontend: React.js, Next.js, Tailwind CSS, Redux , Redux Toolkit, HTML, CSS ,

Backend: Node.js, Nest.js, GraphQL, Express , Fast

Tools: AWS (Cognito, EC2), Git, Docker, Jira, CI/CD pipelines, Mixpanel, Sentry, Cursor, Claude **Databases:** MongoDB, PostgreSQL

Performance Optimization: Lazy loading, Custom Hooks, Memoization , Websockets,

Other: Agile, GitHub, Test-driven development (TDD), Data Structures & Algorithms (DSA)

EDUCATION

Lovely Professional University

Bachelor of Technology (Computer Science & Engineering)

CGPA - **8.47 / 10**