

# NEELESHWARI MEHRA

AI Engineer | AI Full Stack Engineer | MERN Stack Developer | Generative AI • RAG • LLM Systems (3yrs Exp) |

9+ Yrs in Software Engineering | **Mobile** → **Full Stack Web** → **AI Engineer** + **AI Full Stack Web**

Indore, India | +91 94078-70778 (Call & Whatsapp) | Open to Remote Work | Immediate Joiner | [theneeshwari@gmail.com](mailto:theneeshwari@gmail.com) | <https://neeshwarimehra.space/> | [github.com/neeshwarimehra](https://github.com/neeshwarimehra) | [linkedin.com/in/theneeshwarimehra](https://www.linkedin.com/in/theneeshwarimehra)

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## PROFESSIONAL SUMMARY

Software Engineer with 9+ years of total software engineering experience, including 3+ years dedicated to production full-stack web development (MERN, React, TypeScript, Node.js) and enterprise Generative AI engineering (RAG, FastAPI, LLMs). Demonstrated track record modernizing national-scale digital platforms at Prasar Bharati (Akashvani, Artist Booking System, PB Employee Directory), engineering document-grounded AI assistants, scalable REST/JSON APIs, and cross-platform applications. Expertise across modern frontend frameworks (React, Next.js, Redux Toolkit, Tailwind CSS), robust backend systems (Node.js/Express, Python/FastAPI, Laravel), and multi-model database design (MongoDB, PostgreSQL, MySQL). Certified by IIT Kanpur.

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## TECHNICAL SKILLS & CORE COMPETENCIES

- **AI & Machine Learning:** Generative AI, Large Language Models (LLMs), RAG (Retrieval-Augmented Generation), Document Ingestion & Chunking, Embeddings, Vector Search, FastAPI, Python, LangChain, Prompt Engineering.
- **Full Stack (MERN) & Web:** React.js, Next.js, TypeScript, JavaScript (ES6+), Node.js, Express.js, Redux Toolkit, Context API, Tailwind CSS, HTML5, CSS3/SASS, Bootstrap 5, Vite, Responsive UI/UX.
- **Backend & Distributed APIs:** RESTful APIs, JSON APIs, WebSockets, PHP (Laravel), Middleware Architecture, Session Lifecycle, Server-Side Logic.
- **Databases & Storage:** MongoDB, Mongoose, PostgreSQL, MySQL, SQLite, Redis Caching, Schema Design, Query Optimization, AWS S3.
- **Authentication & Protocols:** JWT (JSON Web Tokens), OTP Verification, OAuth 2.0, Role-Based Access Control (RBAC), WebRTC, Stripe Payment Gateway.
- **DevOps, Tools & Mobile:** Docker, Git/GitHub, CI/CD Pipelines, Postman, Linux/Unix, AWS (EC2, S3), Firebase, Ionic, Capacitor, Swift (iOS), Flutter/Dart, React Native.

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## PROFESSIONAL EXPERIENCE

### Full-Stack Web, AI & Mobile Developer | Prasar Bharati (National Public Broadcaster of India)

New Delhi / Remote, India | Dec 2022 – Jun 2026

- Architected the ABS Support AI assistant: engineered a document-grounded RAG pipeline utilizing document ingestion, semantic chunking, and FastAPI endpoints paired with an interactive React interface and PostgreSQL persistence to automate registration, verification, and artist booking support.
- Built and maintained the PB Employee Directory application utilizing React, TypeScript, Ionic, and Capacitor for web and mobile; implemented multi-criteria search, JWT authentication, secure OTP verification, session lifecycle management, and resilient offline data caching.
- Engineered end-to-end full-stack workflows for the web-based Artist Booking System (ABS Platform) using PHP, Laravel, HTML, CSS, and JavaScript, building responsive UI components and robust server-side validation for national artist scheduling.
- Developed and optimized the official Akashvani national broadcasting portal (Akashvani.gov.in) with PHP and Laravel, ensuring high-availability audio streaming for 275+ live radio stations, cultural archives, and regional podcasts.
- Engineered the Shabd (Shared Audio Visuals for Broadcast and Dissemination) media distribution platform in Swift integrated with AWS S3 pipelines for centralized, high-definition broadcast asset distribution.
- Authored system architecture workflows for DDSTB and Snipe-IT enterprise asset management, streamlining inter-departmental technical audits by 35%.

### Software Developer (React & Mobile) | Hiteshi Infotech Pvt. Ltd.

Indore, India | Jul 2020 – May 2022

- Developed dynamic web applications and mobile platforms utilizing React.js, modern JavaScript, and PHP with strict cross-browser and cross-platform compatibility.
- Designed and implemented modular RESTful APIs and optimized complex MySQL relational queries, reducing backend API response times by 25% across business-critical platforms.

- Collaborated with cross-functional design, product, and QA teams using automated linting, unit testing, and CI/CD pipelines to ensure reliable zero-defect deployments.

### Mobile App Developer | NextDay Software Solution

Indore, India | Nov 2018 – Apr 2020

- Engineered client-facing applications across Android and iOS platforms focusing on UI/UX responsiveness, smooth frame rendering, and memory optimization.
- Implemented modular client-server networking layers, responsive user interfaces, and reliable client-side caching strategies.

### Mobile App Developer | Kavya Softech Pvt. Ltd.

Indore, India | May 2016 – Aug 2018

- Handled end-to-end SDLC: requirement analysis, UI implementation, code reviews, QA testing, and production deployment across Apple App Store and Google Play Store.
- Maintained strict compliance with UI/UX standards, security protocols, API payload validations, and token authentication.

## FEATURED AI & FULL STACK PROJECTS

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- **ABS Support AI & ABS Platform** | React, Python, FastAPI, RAG, LLM, Embeddings, PostgreSQL, Laravel | | <https://abs.prasarbharati.org/> | <https://abs-support-ai-web.vercel.app/>

Architected document-grounded RAG support assistant indexing the ABS operational manuals; created FastAPI service endpoints and responsive React chat interface. Developed end-to-end booking workflows with robust server-side validation.

- **PB Employee Directory Web & Mobile App** | React, TypeScript, Ionic, Capacitor, REST APIs, JWT | <https://pb-employee-directory-app.vercel.app/>

Built enterprise employee directory for Prasara Bharati staff with multi-criteria search, OTP login, JWT authentication, session management, and offline data caching across web, iOS, and Android.

- **Akashvani National Web Platform** | PHP, Laravel, JavaScript, HTML5, CSS3 | <https://akashvani.gov.in/>

Engineered scalable web streaming architecture for India's national broadcaster (Akashvani.gov.in), serving 275+ live radio stations, podcasts, and cultural archives to millions of daily users.

- **Cheq - Beforepay** | Swift, Financial APIs, Cryptographic Verification | <https://apps.apple.com/au/app/beforepay-borrow-up-to-5000/id1478582360>

Built Australian 'Pay On Demand' mobile app delivering advances up to \$5,000 with secure transaction processing, automated underwriting checks, and real-time ledger accounting.

- **Teilomarket & Ti Care** | Swift, Stripe Escrow, WebRTC, Firebase, Twilio Video Calling & Chat

Engineered peer-to-peer asset-sharing app with Stripe escrow payment workflows and geospatial search; built telemedicine app featuring encrypted peer-to-peer WebRTC video consultations.

## EDUCATION & CERTIFICATIONS

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- **Professional Certificate in Blockchain Technology & Development** — IIT Kanpur & Simplilearn
- **Bachelor of Engineering (B.E.) in Electronics and Telecommunication** — Indore, Madhya Pradesh, India (2012)
- **Advanced Web Development Specialization** — Udemy

## PERSONAL DETAILS

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- **Languages Known:** English (Fluent), Hindi (Native)
- **Current Location:** Indore, India
- **Nationality:** Indian
- **Work Authorization:** Authorized to work in India / Open to Global Remote Opportunities
- **Date of Birth:** March 5, 1988
- **Marital Status:** Single
- **Strengths:** Quick Learner, Optimistic, Adaptive
- **Hobbies:** Swimming, Cycling, Travelling

## DECLARATION

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I hereby declare that all the information furnished above is true, complete, and correct to the best of my knowledge and belief.

Place: Indore, India

**Neeleshwari Mehra**