

Shalini Sinha

Software Developer — Full Stack (MERN) — AI Systems

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🌐 linkedin.com/in/shalini-sinha-bbb943202 🌐 portfolio

Professional Summary

Full Stack Developer with experience building scalable web and mobile applications using the **MERN stack**, **React Native**, and **Python**. Skilled in developing **AI-powered platforms** using OpenAI, FastAPI, OpenCV, and MediaPipe. Experienced in delivering production systems including recruitment portals, AI exam proctoring platforms, and job marketplace applications.

Technical Skills

Languages: JavaScript, Python

Frontend: React.js, Next.js, React Native, Redux, Tailwind CSS, Material UI, HTML5, CSS3

Backend: Node.js, Express.js, FastAPI, Spring Boot, REST APIs, Socket.IO

Databases: MongoDB, MySQL, Firebase

AI / Computer Vision: OpenAI API, OpenCV, MediaPipe, WebRTC VAD

Tools: Git, GitHub, Nginx, Apache, Expo, Render, Postman

Experience

Software Developer

DgCrux Technology Pvt. Ltd. *May 2025 – Present*

- Built **AIQP**, an AI-powered question paper generator using Python, FastAPI, and OpenAI APIs to automatically generate exams based on syllabus and difficulty level.
- Implemented **LLM-based automated answer evaluation** with grading and feedback generation.
- Developed **Proctor AI**, an AI-based remote exam monitoring platform using React.js, Python, OpenCV, MediaPipe, and WebRTC VAD.
- Contributed to the **AIIMS Recruitment Portal** using React.js integrated with Spring Boot backend APIs.
- Worked on the **FTII Portal** improving UI components and responsive layouts.
- Developed **EmpQuick**, a React Native job marketplace application published on the Google Play Store.
- Built and maintained the **Balmukund Super Steel** mobile app and website using React Native, React.js, and Node.js.

Full Stack Developer

Mania Group of Technology *Jul 2023 – Feb 2024*

- Developed MERN stack applications using React.js, Node.js, Express.js, and MongoDB.
- Implemented real-time communication using Socket.IO.
- Integrated PhonePe payment gateway and Msg91 OTP authentication.

Key Projects

AIQP – AI Question Paper Generator Python, FastAPI, OpenAI API AI-based platform generating exam papers based on syllabus and difficulty levels.

Proctor AI – Online Exam Monitoring React.js, Python, OpenCV, MediaPipe AI-powered proctoring system detecting suspicious activity using facial recognition and noise monitoring.

EmpQuick – Job Marketplace App React Native, Node.js, MongoDB Mobile recruitment platform connecting employers and job seekers.

Balmukund Super Steel React Native, React.js, Node.js Developed company mobile app and website with optimized UI and performance.

Education

Bachelor of Computer Applications

Patna Women's College, Patna *Graduated: 2021 — CGPA: 9.64*

12th (2018) – Holy Mission Senior Secondary School, Patna – 89

10th (2016) – St. John Residential Public School, Patna – 9.8 CGPA

Achievements

- Completed a **15-day MERN Stack Internship Training Program** covering React.js, Node.js, Express.js, and MongoDB.
- Developed multiple **production-ready web and mobile applications** including AI platforms and recruitment systems.
- Hands-on experience integrating **AI and computer vision** into real-world products.