

NAVEEN SINGH CHOUDHARY

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SOFTWARE ARCHITECT | TECHNICAL LEAD | AI PRODUCT ENGINEERING

Software Architect and Technical Lead with 9 + years of experience building AI, computer-vision, fintech, and full-stack products from R&D to production. Advanced from Senior Software Engineer to Tech Lead to Software Architect at Big Picture Software. Architected AIM Football's mobile video-analysis platform with hands-on expertise across Python, Node.js, React Native, cloud services, and real-time systems.

CORE COMPETENCIES

- AI & computer-vision pipelines
- Real-time systems
- System & API design
- Technical direction & code review
- Mobile & web architecture
- Cloud & CI/CD

PROFESSIONAL EXPERIENCE

Big Picture Software Private Limited | Remote

Dec 2022 - Present

Software Architect

- Advanced through 3 roles, taking ownership of architecture, technical direction, code review, and delivery across mobile, backend, AI, and cloud services.
- Architected AIM Football from R&D into production apps. Designed smartphone-video pipeline using YOLO, pose estimation, OpenCV, and ByteTrack for body/ball tracking and AI coaching insights.
- Led R&D across Skhale, AI journal, and meeting intelligence prototypes. Built a winning 150ms AI voice assistant incorporated into core product initiatives.
- Delivered CryptonPay MVP flows for crypto transactions, wallet management, and merchant payments. Awarded Best Feature for AML card authorization controls.

Unisol Private Limited | Jaipur

2021 - 2022

Full Stack MERN Developer

- Built a UK patient-physician portal used by the UK government, featuring WebSockets, browser calling, and document collaboration.
- Led TutorSolve MERN marketplace with Zoom, Razorpay, and Stripe integration.

Next Apparel | Jaipur and Remote

2019 - 2021

Full Stack Developer

- Built a comprehensive admin portal allowing admins to create, update, and manage products, featuring multiple shipping solution integrations such as Shiprocket Delivery.
- Developed a user-facing e-commerce application where users can purchase products, with automatic location-based courier provider selection and integrated shipping calculations.

Freelance Full Stack Developer | Upwork & Fiverr

2017 - 2019

- Delivered end-to-end web and mobile applications for global clients, maintaining a 4.9/5.0 developer rating across 2 years of freelance product engineering.

SELECTED PRODUCT WORK

MemoFlow:

- Built MemoFlow: Local-first AI dictation & meeting transcription app with Hinglish support (100+ daily active users).
- Integrated AI transcript polishing via Apple Intelligence, Gemini & OpenRouter with privacy-focused data control.

Artha Link:

- Built and shipped Artha Link, a local-first iOS personal finance app with expense tracking, budgeting, debt/EMI management, receipt scanning, and AI-powered financial insights, serving 1,500+ active users.
- Developed intelligent expense-entry workflows including natural-language input, batch entries, UPI screenshot imports, and AI receipt scanning, while maintaining a privacy-focused architecture with optional cloud sync.

TECHNICAL SKILLS

AI, Vision & Data: Python, YOLO, OpenCV, Pose Estimation, ByteTrack, DeepSORT, Gemini, Vertex AI, LangChain, RAG, Chroma
Engineering & Cloud: TypeScript, React, React Native, Node.js, Express, FastAPI, WebSockets, MongoDB, PostgreSQL, GCP, AWS, Docker, CI/CD

ACADEMIC CREDENTIALS

Bachelor of Technology | Poornima College of Engineering, Jaipur