Manas Kumar

Software Engineer | Full-Stack Developer
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Summary

Software Engineer with production experience building full-stack and AI-driven web and mobile applications across the software development life cycle (SDLC). Strong fundamentals in data structures, algorithms, OOP and system design; hands-on with JavaScript, TypeScript, Python, React, Next.js, Node.js, FastAPI, REST APIs, PostgreSQL, Docker and CI/CD. Ships features end-to-end in Agile, remote teams. 3x hackathon winner.

Technical Skills

Languages: Java, C++, Python, JavaScript, TypeScript, SQL
Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS, Responsive Design
Backend: Node.js, Express.js, FastAPI, REST APIs, Prisma, tRPC, WebRTC, Redis, Caching
Databases: PostgreSQL, MySQL, MongoDB
Cloud & DevOps: Docker, CI/CD (GitHub Actions), Git, GitHub
Mobile: React Native, Expo, Tamagui, NativeWind
Concepts: Data Structures & Algorithms, OOP, System Design, DBMS, Operating Systems, Computer Networks, Unit Testing, Agile/Scrum, SDLC

Experience

Software Engineer, RealityScale *Remote | Jan 2026 - Jul 2026*
Next.js, Node.js, Docker, Prisma, PostgreSQL, REST APIs, LLM tool calling

- Architected an iterative AI image-to-image workflow (Gemini 2.5 Flash / Gemini 3 Pro) automating photorealistic vehicle background replacement, cutting manual editing time per image by ∼**70%** while preserving geometry and identity.
- Engineered dynamic prompt-generation, metadata extraction and data-merging logic in JavaScript to transform between binary image data and JSON-based API requests, reducing failed/malformed requests by ∼**40%**.
- Built a feedback-driven refinement loop with an automated visual-critique scoring system that auto-retries or terminates against quality thresholds, achieving ∼**90%** first/second-pass acceptance and lowering compute cost per asset.
- Containerized services with Docker and integrated them into CI/CD pipelines, improving deployment reliability and shortening release cycles.

Founding Engineer Intern, Crowwd *Remote, India | Aug 2025 - Jan 2026*
React Native, Node.js, REST APIs, Tamagui

- Designed and shipped the SEBI Verification Flow end-to-end, covering backend REST API design, secure data handling and the React Native frontend, to power the user KYC onboarding path.
- Developed scalable modules for user onboarding, post creation, real-time feed updates, community interactions and notifications, serving **1,000+** early users.
- Built responsive, accessible UI components with Tamagui for a consistent Android/iOS experience, cutting UI defects reported in QA by ∼**30%**.

Projects

AI Agent Chain Orchestration Framework Link
Python, FastAPI, TypeScript, Next.js, SQLAlchemy, PostgreSQL

- Built a dual-runtime (TypeScript + Python) orchestration framework executing JSON-defined AI agent chains across observation, thinking and action nodes on a shared PostgreSQL backend.
- Implemented a multi-provider LLM router and critic network with property-tested orchestrator invariants, exposed via a FastAPI service with SSE streaming for real-time chain execution.

DevHub: Developer Stats & Discovery Platform (Android) Link
React Native, Expo, Tamagui, Convex

- Built a cross-platform mobile app for project showcasing, daily progress tracking and structured documentation, backed by a scalable Convex backend.
- Implemented authentication, GitHub account linking, in-app updates and notification tracking, with a responsive light/dark UI driven by global design tokens.

Education

Netaji Subhas University of Technology, Delhi, B.Tech (CGPA: 7.0) *2023 - 2027*
Ryan International School, Vasant Kunj, Delhi (CBSE), Class XII & Class X *2020 - 2022*

Achievements

- **3x Hackathon Winner:** 1st/2nd place across three competitive hackathons under tight deadlines.
- **4 Freelance Projects Delivered:** Shipped end-to-end web/mobile solutions for clients with on-time delivery.
- **350+ DSA problems** solved in C++ across competitive programming platforms.