

Shobhnik

shobhnikw@gmail.com | [Portfolio](#) | [Github](#) | [LinkedIn](#) | +91-8906044442 | Gurugram, India

Education

Maharaja Agrasen Institute of Technology, B.Tech in IT (8.9 CGPA)

Dec 2021 – Feb 2025

Experience

Software Engineer, Xane AI – Gurugram, India

Jan 2026 – Present

- Designed **system architectures, DB schemas, APIs and AWS deployment plans** for new microservices powering the main revenue-driving product.
- Migrated a legacy JS codebase to **Bun, TypeScript, and Zod** alongside a **multi-tenant DB migration** with zero downtime and no production data loss.
- Built a lightweight **image inferencing pipeline** on **Raspberry Pi** using **ONNXRuntime-Node, YOLOv8, and Node.js**, optimised to run efficiently on hardware with minimal CPU resources.
- Conducted extensive **R&D on agents memory, RAG accuracy frameworks like RAGAS**, and open-source **OCR pipelines** (MinerU)

Software Engineer, Otomashen (E-solutions) – Noida, India

Feb 2025 – Jan 2026

- Built and scaled a high-throughput **EDI/X12 processing engine** handling 20k+ claim files and millions of encrypted denial records, driving a **166% revenue increase**.
- Optimized backend services in **Node.js/TypeScript** with query tuning, indexing, and caching; reduced API latency from **10s to <1s** at scale.
- Engineered a **real-time dispatch system** for proximity based doctor matching, request lifecycle (accept/decline), and instant notifications.
- Delivered **4 production grade client systems**, led one end to end as **Lead Developer**, owning architecture and execution.

Full Stack Developer, Stealth Startup – Remote

Aug 2024 – Jan 2025

- Owned the product end to end as the sole engineer, building all frontend workflows and integrating backend APIs from design to production.
- Architected the complete backend system, designing scalable architecture, database schema, and core processing workflows.
- Built a high-throughput notification pipeline using **Node.js/TypeScript, BullMQ, Redis, PostgreSQL, and Socket.io**, delivering thousands of notifications per second, implemented vector search for fast large scale retrieval.
- Developed a production grade AI agent using **LangGraph, LangChain, and Gemini** for complex workflow automation.
- Scaled the platform to **200–250 active users** managing **500k+ production records** in production.

Projects

InsightPlus [Github](#)

- Built a fully open-source, self-hostable and easy-to-integrate analytics engine using NestJS, TypeScript, and Redis Streams, ingesting **tens of thousands of events/sec** via simple API calls.
- Designed a dual-database architecture supporting **PostgreSQL and ClickHouse** for metrics like MAU, DAU, retention, and custom events.

Technical Skills

Languages: Javascript, Typescript, Golang(Go)

Frameworks: Next.js, NestJS, React.js, Node.js, Express.js, Langchain, Deep agents

Coursework: System Design (HLD & LLD), Computer Networks, Operating Systems, DBMS

DevOps/Infra: Microsoft Azure, AWS, Vercel, Git, Docker, CI/CD, BullMQ, Burp Suite

Databases: PostgreSQL, MySQL, MongoDB, Redis, ClickHouse