

MOHAMMED QAMBAR SYED

FULL-STACK SOFTWARE DEVELOPMENT ENGINEER | AI SYSTEMS

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SUMMARY

Full-stack software engineer building production backend and AI systems — agentic orchestration, voice pipelines, and real-time workflows. Built voice and conversational healthcare workflows as AI Engineering Intern at **Norma AI** live across **1 hospital and 52 clinics** in India.

EXPERIENCE

Norma AI Feb 2026 – July 2026 | Lucknow, India
AI Engineering Intern

- Built and shipped backend and AI voice-automation workflows for healthcare operations now running in production across **1 hospital and 52 clinics**, integrating APIs, LLM agent orchestration, retrieval, and real-time WhatsApp communication.
- Shipped production features across TypeScript/Next.js, Python/FastAPI, Redis, SQL, Cloudflare Workers/R2, Vercel, and LLM APIs.

Robotics Lab, Integral University Feb 2025 – Aug 2025 | Lucknow, India
AI Engineering Intern

- Built **LeafLens**, a plant-disease classification pipeline spanning 15+ classes; improved model accuracy from **~70% to 83%** through transfer learning, preprocessing, training, and evaluation, with edge-inference exploration on Raspberry Pi.

SELECTED SOFTWARE PROJECTS

APEX : Agentic AI Operating System | Python, Redis, ChromaDB, MCP, Next.js, LLM APIs
Architected a **24-layer agent execution system** that routes user intent through dependency-aware task DAGs to parallel code/research agents, with semantic memory, caching, and self-healing recovery workflows.

PathOS : Career Execution Engine | Next.js, TypeScript, MongoDB, JWT, OpenRouter/Gemini
Built a full-stack platform converting role targets, skill gaps, salary goals, and available time into execution plans, with authentication, resilient persistence, AI plan generation, and web-enriched resource dashboards.

NullSignal : Offline Emergency Communication | Flutter/Dart, BLE, WiFi Direct, Cryptography, Local AI
Built an offline-first emergency communication app for zero-connectivity zones, enabling encrypted peer-to-peer messaging and SOS signaling over BLE/WiFi Direct with end-to-end Ed25519/X25519/AES-256-GCM encryption and gateway relaying.

SVORA : AI Fitness Platform | Next.js, React, MediaPipe, MongoDB, Gemini/OpenRouter
Built a fitness platform combining in-browser pose estimation and rep counting with AI-generated workout protocols, persistent user data, journaling, and integrated frontend/API layers.

Additional Projects | Production Utilities & Prototypes
Resume Automation Assistant: Python, Playwright, MongoDB, Gemini; automated JD extraction, resume tailoring, and skill-gap analysis.
Awaaz-e-Awadh / Railway QR Authentication: Voice-first Hindi/Awadhi grievance-routing platform and QR-based passenger authentication workflow for low-connectivity rail environments.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, Dart, SQL
Frontend: React, Next.js, Vite, Tailwind CSS, HTML/CSS, Framer Motion, Three.js
Backend: FastAPI, Node.js, Express, Django, REST APIs, authentication, async workflows, serverless
Databases: MongoDB, PostgreSQL, MySQL, PlanetScale, Redis, ChromaDB, Supabase, SQLite
AI / Systems: LLM APIs, RAG, embeddings, vector retrieval, multi-agent orchestration, task DAGs, MCP, OpenCV, MediaPipe, YOLO
Cloud / DevOps: Git, GitHub, Docker, Vercel, Netlify, AWS Lambda, Cloudflare Workers/R2, Google Colab
Automation: Playwright, Puppeteer, Scrapy, API integrations, workflow automation

EDUCATION

Integral University — B.Tech, Computer Science and Engineering | **CGPA: 7.4** 2024 – 2027
Integral University — Diploma, Computer Science and Engineering | **CGPA: 8.6** 2021 – 2024
ICSE Class X | **85%** 2021

ACHIEVEMENTS

- Google Agentic Premier League Finals / GDG Lucknow Finalist (2026):** Reached finals with Team NodeZero for Awaaz-e-Awadh, a rapid prototype built in ~4 hours.
- Hackathon Winner/Finalist:** Railway-security automation challenge; Epsilon 2022 Winner; Scientia 2021 Second Prize.