

Navneet Sharma

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PROFESSIONAL EXPERIENCE

Freelance Software Engineer

Jun 2025 – Present

Remote

Work Demo

- Client required real-time AI Virtual Try-On system for mobile app – Developed production API using Python and FastAPI with custom processing nodes, optimized cloud GPU infrastructure – Achieved <60s response times, delivered complete solution with documentation and error handling

IoT & Data Analysis Intern

Jun 2024 – Jul 2024

NIELIT, Chennai (Remote)

- Organization needed efficient EV battery health monitoring solution – Developed **Quilles Pulse** end-to-end system using ESP-32, Python, Node-RED, and MQTT for real-time sensor data (Current, Voltage, Temperature) with SQLite database for SoC/SoH analysis – Improved processing efficiency by 20%

AI/ML Core Team Member

Aug 2023 – Aug 2024

Google Developer Student Clubs (GDSC)

Club Profile

- Student community needed hands-on technical training in software development – Co-led workshop series planning logistics and creating learning materials on development, testing, and deployment – Successfully engaged ~300 students with hands-on coding sessions

SELECTED PROJECTS

RupeeBee – Fintech Platform | Team Lead & Lead Engineer

Live Demo

- PSB Hackathon 2025 challenged teams to build fintech solutions for financial inclusion – Led team from concept to production, architecting backend with Python, FastAPI, PostgreSQL (Supabase), and GCP Cloud Run – Won 1st place (INR 5 Lakhs), showcased at Global FinTech Fest 2025
- Application required high-performance, reliable infrastructure to serve users at scale – Docker deployment, developed 10+ features – Achieved **6K+ requests** with **<200ms latency**, **95% uptime**, serving 80+ users

Road Anomaly Detection System | Full-Stack Developer

Live Demo | GitHub

- Road safety monitoring required accurate, fast anomaly detection system – Built computer vision application using Python, YOLOv8, and OpenCV, engineered data pipeline with 30K+ images – Achieved **74.5% mAP@0.5** with **12ms inference** for real-time detection
- Developed interactive Streamlit web interface with dual-model architecture, proper error handling, and input validation

Farmer Sahayak – Agricultural PWA | Lead Developer

Live Demo | GitHub

- Agricultural communities needed accessible AI tools across 11 Indian languages with fast response times – Architected serverless backend using Node.js, PostgreSQL (Neon), and Next.js 16 with optimized API routes – Achieved **<150ms response times**, successfully deployed scalable Progressive Web App
- Integrated Sarvam AI and Kindwise APIs with retry logic and timeout handling, designed database schema – Delivered production system with graceful degradation and cloud infrastructure deployment

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C/C++, SQL

Backend Development: FastAPI, Flask, Node.js, Django, RESTful APIs

Frontend & Mobile: React, Next.js, React Native (familiar), Streamlit, Tailwind CSS

Cloud & DevOps: GCP, AWS (familiar), Docker, GitHub Actions/Workflows, CI/CD Pipelines

Databases: PostgreSQL, MySQL, SQLite, Supabase

Tools & Practices: Git, Linux/CLI, Unit/Integration Testing, API Testing, Error Handling

Additional: PyTorch, TensorFlow, Computer Vision, NLP, IoT (MQTT, ESP-32)

EDUCATION

I.K. Gujral Punjab Technical University

Punjab, India

Bachelor of Technology in Computer Science and Engineering | CGPA: 7.3/10

Aug 2022 – Jun 2026

ACHIEVEMENTS & HONORS

- Winner, PSB Hackathon 2025:** 1st place (INR 5 Lakhs) for fintech platform; presented at Global FinTech Fest 2025, Mumbai [Link](#)
- Finalist, Smart India Hackathon 2024:** Advanced to national finals with software solution
- Stage 1 Qualifier, e-Yantra Robotics Competition:** Cleared IIT Bombay technical challenge [Video](#)