

NAVNEET SHARMA

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Summary: I'm a product-focused engineer who builds things that work. I don't believe in sticking to a single stack. I research, learn, and apply whatever technology gets the job done best. From winning national hackathons to hacking on IoT hardware, I combine deep technical understanding with a practical execution style to ship enterprise-grade solutions.

Experience

[Freelance \(Remote\)](#)

June 2025 – Present

Backend Engineer

- Engineered a real-time AI Virtual Try-On (VTON) and recommendation API for a mobile application using FastAPI and ComfyUI. Developed custom nodes for automated, rule-based cloth masking and deployed the scalable solution on Lightning Studio.

[Google Developer Student Clubs \(GDSC\)](#)

Aug 2023 – Aug 2024

AI/ML Core Team Member

- Co-led the planning and execution of AI/ML workshops and technical sessions, engaging ~300 students. Collaborated with the core team on event logistics, content creation, and outreach strategy.

[NIELIT, Chennai \(Remote\)](#)

Jun 2024 – Jul 2024

IoT & Data Analysis Intern

- Developed an IoT system using an ESP-32 (C++) for real-time monitoring and alerting of EV battery parameters (voltage, current, temperature) via MQTT.

Projects

[RuppeeBee](#) | Team Lead & Lead Backend Engineer

[Live](#)

- AI-Powered Fintech Platform for Financial Security & Literacy app.
- Led development of an enterprise-grade fintech app showcased at GFF 2025, architecting a Supabase/GCP backend and fine-tuning ALBERT models for high-accuracy spam detection.

[Road Anomaly Detection](#)

[GitHub](#)

- Developed a computer vision system to detect road hazards (cracks, potholes) using custom-trained YOLOv8 models. Deployed a real-time visualization interface using Streamlit and Flask for immediate anomaly reporting.

Achievements

- [Global Fintech Fest - 2025](#) - Presented RuppeeBee at the 6th edition of GFF. Selected to present RuppeeBee to industry leaders, policymakers, innovators and fellow peers at Jio World Convention Center, Mumbai.
- [Public Sector Banks Hackathon Series - 2025](#) - Led the team Ranked 1st in the 1st edition of PSB [hackathon](#) series, organized by Punjab & Sind Bank. Built RuppeeBee, a cross-platform app that prevents frauds, helps manage personal budget, spreads financial awareness.
- Smart India Hackathon (SIH) 2024: College Finalist.
- Robotics: Cleared Stage 1, e-Yantra [Warehouse Drone](#) Competition (IIT Bombay); 2nd Place, IGNIS Robotics Circuitry Open Challenge.

Education

[I.K. Gujral Punjab Technical University, Kapurthala, Punjab](#)

2022 - 2026

Bachelor of Technology (B. Tech), Computer Science and Engineering

SGPA: 7.3 / 10

Skills

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

AI/ML: PyTorch, YOLO, ComfyUI, Pandas, Scikit-learn.

Tools & Platforms: Git, Docker, GCP, Supabase, Linux, Figma, AI-Assisted Development.

Hardware: IoT (ESP-32), Robotics Circuitry.