

Shival Gupta

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TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, SQL

Web Development: Next.js, Tailwind CSS, Clerk.js, Prisma ORM, PostgreSQL, WebSockets

AI, Robotics & IoT: Agentic AI, RAG, ROS, Arduino, Jetson Nano

Tools: Docker, Blender, Unity, OpenXR (VR)

PROJECTS

Autonomous Omni-Wheel Library Robot (Capstone)

Jan 2025 – Apr 2025

Jetson Nano, ROS, Arduino, Python, C++

Integrated Jetson Nano with Arduino motor control and AI navigation.

Implemented ROS-based LiDAR mapping and IR-guided line following.

Smart Home Automation (Samsung PRISM Worklet)

Sep 2024 – Jun 2025

Unity, crewAI, WebSockets, Next.js

(certificate)

Built 3D smart home simulation in Unity as a testbed for AI agents.

Connected AI backend with real-time device orchestration via WebSocket/HTTP.

Developed control dashboard for monitoring and agent-based interaction.

Samsung Store XR (Samsung PRISM Challenge, Winner)

Feb 2024 – Jul 2024

Unity, OpenXR, Blender

(certificate)

Built VR prototype of Samsung's store for Meta Quest and other VR devices.

Added teleportation, interactive product showcase, and cart system.

EXPERIENCE

XR Developer Intern

Feb 2025 – Jun 2025

SatoriXR, Chennai, India

(certificate)

Led a team of 4 developers and a 3D artist on a defense-focused VR simulation.

Processed DEMs and satellite imagery into interactive Unity terrains.

Implemented missile trajectory modeling and Google Earth-style tools.

Helped hosting OpenProject (OpenSource Jira alternative) on Azure.

Software Developer Intern

Sep 2023 – Nov 2023

Airtel Payments Bank, New Delhi

(certificate)

Worked in Agile/Scrum workflows for fintech app development.

Built a secure full-stack B2B SaaS prototype for transactions.

Implemented Next.js + Prisma + PostgreSQL stack with encryption.

Integrated third-party auth (Clerk.js) and modern UI (Tailwind + shadcn).

EDUCATION

B.Tech in Computer Science and Engineering with Specialization in AI and Robotics

CGPA: 7.84

Vellore Institute of Technology, Chennai

2021 – 2025 (Graduated)

Senior Secondary (XII) - CBSE

62.17%

St. Karen's High School, Patna

2020

Secondary (X) - CBSE

75.67%

St. Karen's High School, Patna

2018

EXTRACURRICULAR ACTIVITIES

Piano, Skating, Badminton, Photography, Videography