

# 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