

Shival Gupta

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PROFESSIONAL SUMMARY

CS Graduate specializing in Web, XR, and AI, with hands-on experience building defense simulations, autonomous robots, and agent-driven smart home systems.

TECHNICAL SKILLS

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

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

AI & Robotics: ROS, Jetson Nano, Arduino, RAG pipelines, multi-agent systems

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

PROJECTS

Autonomous Omni-Wheel Library Robot (Capstone)

Jan 2025 – Apr 2025

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

Integrated Jetson Nano with Arduino for real-time motor control and AI-based navigation.

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

Smart Home Automation (Samsung PRISM Worklet)

Sep 2024 – Jun 2025

Certificate

Unity, crewAI, WebSockets, Next.js

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

Connected AI backend with real-time device orchestration using WebSocket and HTTP.

Developed a control dashboard for monitoring and agent-based interactions.

Samsung Store XR (PRISM Challenge Winner)

Feb 2024 – Jul 2024

Certificate

Unity, OpenXR, Blender

Developed a VR prototype of Samsung's retail store for Meta Quest and other XR devices.

Implemented teleportation, interactive product showcases, and virtual cart systems.

EXPERIENCE

Systems Engineer (ILP Trainee)

Jan 2026 – Present

Tata Consultancy Services (TCS)

XR Developer Intern

Feb 2025 – Jun 2025

Certificate

SatoriXR, Chennai, India

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

Processed DEMs and satellite imagery into interactive Unity-based terrain systems.

Implemented missile trajectory modeling and Google Earth-style visualization tools.

Assisted in hosting OpenProject (open-source Jira alternative) on Azure using Docker.

Software Developer Intern

Sep 2023 – Nov 2023

Certificate

Airtel Payments Bank, New Delhi

Worked in Agile/Scrum workflows for fintech application development.

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

Implemented Next.js, Prisma, and PostgreSQL with encryption and RBAC.

Integrated third-party authentication and modern UI using Tailwind and shadcn.

EDUCATION

B.Tech in Computer Science and Engineering (AI & Robotics)

2021 – 2025

CGPA: 7.84

Vellore Institute of Technology, Chennai

Senior Secondary (CBSE XII)

2020

St. Karen's High School, Patna

62.17%

Secondary (CBSE X)

2018

St. Karen's High School, Patna

75.67%

EXTRACURRICULAR ACTIVITIES

Piano, Skating, Badminton, Photography, Videography