

Shourya Deep

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Education

Vellore Institute of Technology
B.Tech in CSE (AI & Robotics)

Chennai, India
Aug 2023 – May 2027

Skill Summary

Programming: Python, Java, C/C++, JavaScript, Shell Scripting
Web & Application Development: HTML/CSS, React.js, Node.js, API Integration, Responsive Web Design
Databases: SQL/MySQL, MongoDB (NoSQL), Data Warehousing & ETL Basics
Systems & Domains: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Design Patterns, Multithreading & Concurrency, Computer Networks (TCP/IP, HTTP/HTTPS), Operating Systems (Process & Memory Management), Microservices Architecture (intro), SDLC, Agile/Scrum, Software Testing & Automation
Robotics & Embedded Systems: ROS2, Embedded C/C++, Sensor Integration, Gazebo & RViz Simulation, SLAM (Simultaneous Localization and Mapping), Real-Time Systems
DevOps, Cloud & Security: Git, GitHub, Docker, CI/CD (GitHub Actions, Jenkins), Linux/Windows, Cloud Platforms (AWS/GCP basics), Kubernetes (fundamentals), Container Orchestration
Tools & Platforms: Visual Studio, Postman, JUnit, PyTest, Selenium, Debugging & Performance Tuning
Soft Skills: Problem Solving & Innovation, Collaboration & Teamwork, Leadership, Communication, Adaptability, Time Management, Initiative & Ownership

Work Experience

Programming Team Lead – Team Technocrats Robotics

Apr 2024 – Present

Spearheaded development of autonomous robotics systems in Python & C++, engineering real-time testing and monitoring for reliability, orchestrating sensor-actuator integration with optimized data pipelines, and directing agile workflows, version control, while mentoring juniors.

Projects

CyberSecurityVault – Full-Stack Password Manager Agent9777/CyberSecureVault Built a secure password manager with React.js, Node.js, and MySQL, featuring encrypted storage, authentication APIs, and a responsive user-friendly interface.	Syncwatchy – Real-Time Media Sync Platform Agent9777/video-sync-project Developed a synced video-watch platform with React.js and Node.js, implementing robust session handling and authentication for seamless multi-user playback.
YouTube Video Downloader – Python Automation Tool Agent9777/YT_VideoDownloader Developed a Python tool to download YouTube videos by title, automating retrieval and media handling for seamless, ad-free one-click downloads.	Smart Delivery Robot (In Progress) Building an autonomous robot with real-time mapping, localization, and navigation using ROS2, LiDAR, and SLAM, integrating sensors with robust control logic for obstacle avoidance and delivery tasks.
AI Meeting Summarizer (In Progress) Developing an AI assistant that converts audio/text transcripts into concise summaries, action items, and key insights to boost collaboration and productivity.	

