

# Ishaan Verma

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<https://ishaanv.vercel.app/>

## Education

**Vellore Institute of Technology** | 2022–2026  
Bachelor of Technology (B.Tech) in Computer Science (CGPA: 7.75 / 10) | Bhopal, Madhya Pradesh

## Technical Skills

**Languages:** Java, C++, Python  
**Technologies:** Spring Boot, React.js, Express.js, HTML, MongoDB, MySQL, Node.js, JavaScript, Docker & Kubernetes, AWS.  
**Concepts:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Clean Code Principles, SDLC, Software Design Basics, GitHub Actions.  
**Certifications:** NPTEL Cloud Computing - IIT Madras, Oracle OCI Generative AI, Oracle OCI DevOps Professional.

## Experience

**Arrise Solutions (India) Pvt. Ltd** | Oct 2024 – Dec 2024  
Full Stack Software Intern | Noida, Uttar Pradesh

- Developed key backend features using Spring Boot and built dynamic, responsive frontend with React to create a seamless user experience.
- Worked on debugging, testing, and optimizing backend services in a production environment, collaborating with cross-functional teams.
- Designed and implemented a secure login module with authentication and role-based access, performing debugging, troubleshooting, unit testing, and code optimization to ensure reliability and high performance.
- Actively contributed to a global team by performing quality assurance and collaborative testing for the Romania-based PWF360 project, ensuring high-quality software delivery and performance.

## Projects

**Empowerly – HR and Employee Management System** | Java, SpringBoot, React.js, MongoDB | <https://empowerly.vercel.app/>

- Developed enterprise-grade Spring Boot APIs for HR and Employee automation covering attendance, leave, payroll, and performance management for 100+ employees and reducing manual HR processing time by 30%.
- Integrated Google Gemini AI for chatbot queries, skill recommendations, and automated performance insights.
- Developed real-time collaboration features including peer-to-peer video conferencing (WebRTC) and instant messaging using WebSockets and Socket.IO.
- Designed a secure authentication with JWT, role-based access control (RBAC), and active session monitoring.

**ArriBot – AI-Powered Learning Platform** | Spring Boot, React.js, MongoDB | <https://arri-bot.vercel.app/>

- Developed a full-stack AI learning platform supporting chatbot, quizzes, flashcards, and text summarization for 1,000+ generated learning artifacts.
- Integrated Google Gemini for real-time AI responses and automated study material generation.
- Optimized data models and queries for high-performance content storage and retrieval.
- Containerized backend services using Docker and Docker Compose for scalable deployment.

**ASTraMind – AI-Powered Codebase Intelligence Platform** | Spring Boot, React, PostgreSQL | <https://astramind.vercel.app/>

- Developed an AI-powered code intelligence platform enabling semantic search and natural language queries over 50K+ lines of code.
- Implemented natural language code querying with LLMs (Groq, Ollama) using RAG architecture.
- Designed to store code entities, embeddings, and relationships, supporting fast similarity search and real-time code metrics.
- Created a React frontend with GitHub OAuth and interactive code dependency visualizations.

## Activities

**Health Hackathon, Johns Hopkins University, USA**

- Developed a web app for stress recovery and mental well-being during a Health Hackathon, focusing on emotional wellness.

**Ramanujan Club – Annual Tech Fest 2025**

- Won Gold Medal in an event organized by the Ramanujan Club during the Annual Tech Fest 2025.