

MANVENDRA RAI

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PROFESSIONAL SUMMARY

B.Tech Computer Science and Engineering student (Gaming Technology specialization) with expertise in Data Structures & Algorithms, Object-Oriented Programming, and scalable full-stack systems. Delivered high-impact projects using MERN stack, Java, and Machine Learning. Skilled in cloud deployment (AWS), RESTful API design, CI/CD pipelines, and Agile collaboration with proven ability to deliver optimized solutions.

SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML5, SQL

Technologies: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Bootstrap, MongoDB, MySQL, Firebase, AWS, Docker, Microservices, Serverless

Tools: Git, GitHub, Postman, Vercel, Netlify, Jira, CI/CD, Agile/Scrum, Unit Testing (JUnit, Jest)

EDUCATION

Vellore Institute of Technology, Bhopal

Oct 2022 – Oct 2026

B.Tech, Computer Science and Engineering (Gaming Technology)

GPA: 8.44/10

Relevant Coursework: Data Structures & Algorithms, DBMS, OS, CN, AI, Software Engineering

PROJECTS

MERN AI ChatBot — Full Stack + GenAI

May 2025

- Engineered chatbot using MERN stack and OpenAI API with JWT authentication, MongoDB persistence, and prompt engineering for contextual replies.
- Benchmarked with 50 users; sustained 180ms average response time and ensured 100% uptime during a 1-hour test.

Credit Card Fraud Detection — Machine Learning

Jan 2025

- Designed Random Forest and Logistic Regression models with SMOTE; delivered 98% precision and 95% recall on Kaggle-based dataset.
- Implemented 5-fold cross-validation and packaged reproducible experiments via Google Colab.

Real-Time Chat Application — Full Stack

Sep 2024

- Developed chat platform leveraging MERN stack and WebSocket for instant messaging, JWT authentication, and MongoDB persistence.
- Monitored performance with 50 users; sustained <200ms response latency and 99% uptime across a 1-hour trial.

Online Bookstore Web App — Java Backend

Mar 2024

- Built MVC architecture with JSP/Servlets, MySQL, and JDBC; integrated authentication, cart, and admin inventory modules.
- Executed load testing with 40 concurrent users; maintained <1.2s page load time and zero critical errors.

TECHNICAL EXPERIENCE

Android Club, VIT Bhopal — Core Tech Member

Aug 2023 – Present

- Led CI/CD pipeline integration, improving deployment efficiency by 40% while mentoring 10+ junior developers.
- Directed infrastructure setup for hackathon with 600+ teams (2,500+ participants), ensuring smooth technical operations.

Techno Club, VIT Bhopal — Tech Team Member

Oct 2023 – Present

- Constructed RESTful APIs and full-stack modules for internal apps (500+ active users), cutting backend load time by 25%.
- Automated contest registration workflow; processed 300+ submissions with zero duplicate records.

CERTIFICATIONS

Introduction to Cybersecurity Analyst | IBM Web-Based Training

Apr 2025

MERN Full Stack Developer | Ethnus Training Program

May 2025

Hackathon Participation

2023 – 2025

- Competed in 15+ hackathons; secured 5 finalist positions among 1000+ teams by developing scalable full-stack applications and presenting innovative solutions under tight deadlines.