Manvendra Rai

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Professional Summary

B.Tech CSE student (Gaming Tech specialization) with expertise in Data Structures & Algorithms, OOP, and scalable full-stack systems. Delivered high-impact MERN, Java, and ML projects. Skilled in cloud deployment(AWS), API design, CI/CD pipelines, and Agile collaboration.

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)
Core CS: Data Structures & Algorithms, OOP, DBMS, OS, Computer Networks, Software Design Patterns

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   Jul 2024
- Built AI chatbot using MERN & OpenAI API with JWT auth, MongoDB persistence, prompt engineering for contextual replies.
- Conducted latency test with 50 users on campus Wi-Fi; achieved average response time of 180ms and 100% uptime during 1-hour load simulation.

Credit Card Fraud Detection — Machine Learning   May 2024
- Developed Random Forest & Logistic Regression models with SMOTE; 98% precision, 95% recall on Kaggle-based dataset.
- Validated model using 5-fold cross-validation; reproducible via Google Colab with sample dataset.

Online Bookstore Web App — Java Backend   Mar 2024
- Implemented MVC architecture with JSP/Servlets, MySQL, JDBC; features include auth, cart, and admin inventory.
- Load tested with 40 concurrent college users; sustained ¡1.2s page load time and zero critical errors.

AutoGPT – Autonomous AI Agent — Generative AI   Feb 2024
- Configured OpenAI GPT + LangChain for autonomous workflows; integrated memory/planning in Python/Docker.
- Benchmark run with publicly available prompts: completed 5-step task in average 42s vs. 65s baseline.

Experience

Techno Club, VIT Bhopal — Tech Team Member   Oct 2023 – Present
- Developed REST APIs and full-stack modules for internal apps (500+ active users), reducing backend load time by 25%.
- Automated contest registration; processed 300+ entries with zero duplicate records.

Android Club, VIT Bhopal — Core Tech Member   Aug 2023 – Present
- Led CI/CD pipeline integration, improved deployment efficiency by 40%; mentored 10+ junior developers.
- Directed technical infrastructure for hackathon with 600+ teams (2,500+ participants).

Certifications

Introduction to Cybersecurity Analyst | IBM Web-Based Training   2024 – Present
MERN Full Stack Developer | Ethnus Training Program   2023 – 2024
Hackathon Participation (2023–2025)
- 15+ hackathons; 5x finalist among 1000+ teams.

Inter-department Cricket Championship Winner | VIT Bhopal   2023, 2024