

Chandan Kumar

Computer Science Undergraduate | Aspiring Software Developer

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Professional Summary

Final-year Computer Science student with strong foundations in programming, algorithms, and databases. Hands-on experience in full stack development, cloud platforms, and applied machine learning. Passionate about building secure, scalable, and intelligent applications with a keen interest in enterprise systems and emerging technologies.

Education

Jaypee University of Information Technology, B.Tech. in Computer Science

2022–2026

CGPA: 7.3/10

A.S. College, Bikramganj (BSEB)

Class XII – Score: 78%

2020

Experience

Full Stack Developer Intern – Unified Mentor Pvt. Ltd.

Feb–Mar 2025

- Designed and deployed full stack web applications using Node.js, Firebase, and JavaScript
- Built secure authentication and optimized database operations for scalability and performance
- Collaborated in a team using GitHub for version control, issue tracking, and documentation

Projects

Super Mall Web Application – Node.js, Firebase, HTML/CSS, JavaScript

- Developed a multi-floor digital mall with shop-wise product browsing and merchant dashboards
- Implemented features such as product comparison, shopping cart, checkout, and offer management
- Used Firebase Realtime Database and Auth for secure, dynamic, and scalable data handling

Real-time Chat Application – JavaScript, WebSockets, Firebase

- Built a reliable communication platform using WebSocket protocol and real-time Firebase sync
- Implemented automated room creation, instant updates, and optimized data flow across devices
- Designed a user-friendly and responsive UI ensuring cross-platform consistency

AI-Driven Intrusion Detection System – Python, scikit-learn, Pandas

- Applied machine learning to automate detection of cyber attacks using the UNSW-NB15 dataset
- Optimized the model pipeline with SMOTE balancing and ensemble methods (Random Forest, XGBoost)
- Achieved 96.4% accuracy, demonstrating strong data analysis and optimization capabilities

Technical Skills

Core Competencies: Data Structures & Algorithms, Object-Oriented Programming, Problem-Solving

Languages: C++, Python, C, JavaScript

Web Dev: HTML, CSS, JavaScript, Node.js, REST APIs

Databases & Cloud: Firebase (Auth, Realtime DB, Hosting), MySQL, AWS

Machine Learning: scikit-learn, Pandas, NumPy

Tools: Git, GitHub, VS Code, Postman, Firebase CLI

Certifications

- Gen AI Exchange Program (Phase 1 – Gen AI Academy), Google Cloud (2025)
- Introduction to Cloud Computing – IBM (Coursera)
- Machine Learning Specialization – DeepLearning.AI
- Web Development – IBM (Coursera)
- Git and GitHub – IBM (Coursera)
- Generative AI with AWS – AWS AI & ML Scholars Challenge (2025)

Extracurricular Activities

Smart India Hackathon 2023

Ranked 12th/50+ teams in internal round; developed a prototype solution for a real-world problem

NCC Cadet – 1 HP Bn NCC (B Certificate Holder)

Completed ATC-131 and ATC-196 camps, showcasing leadership, discipline, and teamwork

Cyber Security Consultant (Virtual) – Deloitte Australia (Forage)

Simulated a cyber breach response: log analysis, threat detection, and mitigation strategies