

# Chandan Kumar

Software Engineer | Full-Stack Developer | Cloud & AI Enthusiast

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## Professional Summary

Final-year Computer Science student with strong foundations in data structures, algorithms, and software engineering. Hands-on experience in full-stack development, APIs, cloud platforms, and applied machine learning. Skilled in building secure, scalable, and intelligent applications with exposure to Generative AI, Vertex AI, and AWS AI services. Adept at agile collaboration, version control, and modern development practices.

## 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 2 full-stack web applications using Node.js, Firebase, and JavaScript, improving scalability and performance.
- Built secure authentication modules and optimized database queries, reducing latency for real-time user operations.
- Collaborated in an agile team environment using GitHub for version control, issue tracking, and technical documentation.

## Projects

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

- Developed a multi-floor digital mall with shop-wise product browsing, merchant dashboards, and offer management.
- Implemented automation features such as product comparison, cart, and checkout with real-time database sync.
- Leveraged Firebase Realtime Database and Auth to ensure secure and scalable data handling.

**Real-time Chat Application** – JavaScript, WebSockets, Firebase

- Built a cross-platform chat platform using WebSocket protocol and Firebase for instant communication.
- Automated room creation, enabled live updates, and optimized data flow across multiple devices.
- Designed a responsive and user-friendly interface ensuring consistent user experience.

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

- Applied supervised learning algorithms to detect cyberattacks using the UNSW-NB15 dataset.
- Enhanced model accuracy using SMOTE balancing and ensemble methods (Random Forest, XGBoost).
- Achieved 96.4% accuracy, showcasing advanced skills in ML pipeline optimization and threat detection.

## Technical Skills

**Programming:** C++, Python, C, JavaScript

**Full-Stack Development:** Node.js, HTML, CSS, REST APIs, Firebase (Auth, Realtime DB, Hosting)

**Databases & Cloud:** MySQL, AWS, Google Cloud Vertex AI

**AI/ML:** Generative AI (Gemini, Imagen), scikit-learn, Pandas, NumPy

**Core Competencies:** Data Structures & Algorithms, OOP, Problem-Solving, Agile Development

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

## Certifications

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

## 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, demonstrating leadership, discipline, and teamwork.

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

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