

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)

2020

Class XII – Score: 78%

Experience

Full Stack Developer Intern – Unified Mentor Pvt. Ltd.

Feb–Mar 2025

- Designed and deployed two 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, Object-Oriented Programming (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 out of more than 50 teams in the 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)