

CHANDAN SAROJ

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PROFESSIONAL SUMMARY

Software Development Engineer with **2.2 years** of experience building scalable, industry-grade web applications. Expert in the **MERN Stack, REST APIs, and Secure Backend Architecture**. Delivering live production systems and automating deployments using **Jenkins (CI/CD)**. National Hackathon Winner and 6 citations in conference paper.

TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), TypeScript, Node.js, Python, Java, SQL.
- Frontend:** React.js, Redux Toolkit, Tailwind CSS, Responsive Design.
- Backend:** Node.js, Express.js, REST APIs, Django, ASP.NET Core, JWT Authentication.
- DevOps & Tools:** Jenkins (CI/CD), Git/GitHub, Docker, Postman.
- Databases:** MongoDB, MySQL, Microsoft SQL Server, Firebase.

PROFESSIONAL EXPERIENCE

MERN Stack Developer <i>Web Creators, Zirakpur</i>	Jan 2026 Present <i>Chandigarh, India</i>
<ul style="list-style-type: none">SimpleBit (Fintech Dashboard): Architected a high-performance crypto trading frontend using React and TypeScript. Implemented real-time data visualization, secure JWT authentication, and responsive charts for live market tracking. (app.simple-bit.com)The Hidout (Booking Platform): Developed a comprehensive booking engine and content management system. Optimized the user flow for property reservations and integrated secure payment gateway logic. (dev.thehidout.com)AksumBase (Resource Mgmt): Built a scalable backend and administrative dashboard for data management. Configured Jenkins pipelines for automated testing and CI/CD deployment to production servers. (aksumbase.com)	
Software Development Engineer <i>NIELIT (National Institute of Electronics & IT)</i>	May 2024 Oct 2025 <i>Ropar, Punjab</i>
<ul style="list-style-type: none">Architected SaaS platform features using React for dynamic UI and Node.js/TypeScript for productivity tools.Engineered secure REST API gateways handling 500+ concurrent requests with 99.9% uptime.Implemented SHA-256 encrypted backend systems for 30,000+ files to ensure zero-knowledge security.Build "Amigo," a VS Code Extension using TypeScript to automate project hygiene, reducing code clutter by 20%.Managed full-stack data lifecycles for national exam portals using SQL and SSRS.	
Web Development Intern <i>NIELIT (National Institute of Electronics & IT)</i>	Aug 2023 Feb 2024 <i>Chandigarh, India</i>
<ul style="list-style-type: none">Developed a full-stack Learning Management System (LMS) using React and Django.Led the Identity Card Automation System project using Python, MongoDB, and JavaScript, reducing manual processing time by 60%.	

HACKATHONS & ACHIEVEMENTS

- 2nd Runner Up - National Level:** *Paranox 2.0 Hackathon* (Top 3 of 1,552 projects).
 - Project:** **SmartLane AI.** Developed an intelligent traffic management system using YOLOv8 and TensorFlow.
 - Achieved 99.2% accuracy in emergency vehicle detection to optimize signal timing at 4-way intersections.
- Best Research Paper Award:** NICTEDT 2025 for excellence in Artificial Intelligence and Machine Learning.
- Amazon ML Challenge:** Participated in the 2023 National Hackathon to build high-accuracy ML models.

KEY PROJECTS

- Secure Question Paper Platform** | *Node.js, SQL Server, React*
- Engineered a leak-proof platform using **SHA-256 hashing**, ensuring zero plaintext exposure for sensitive data.

Identity Card Automation System | *Django, Python, MongoDB*

 - Automated ID card generation using Django, utilizing JavaScript for template overlays and backend image processing.

RESEARCH & PUBLICATIONS (6 CITATIONS)(SPRINGER)

- Best Paper:** Generating Synthetic House Floor Layout Images Using Diffusion Models (Springer, 2025).
- Resume Summarization - An Application of Generative AI (Springer, 2024).
- Audio Classification Using Deep Learning (Springer, 2025).
- Assessing Online Products Using NLTK Based Machine Learning Model (ICIAC, 2023).

EDUCATION

B.Tech in Computer Science Engineering | BPIT, Delhi | CGPA: 8.7