

NANDINI NEMA

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EDUCATION

Bachelor of Technology in Information Technology, Honors in DevOps SVKM's Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai, India Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Software Engineering, System Design, Database Systems, Object-Oriented Design	Aug 2023 – Jun 2027 CGPA: 9.45/10.0
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WORK EXPERIENCE

Indian Institute of Technology, Bombay Full-Stack Development Intern	Jan 2025 – Jun 2025
<ul style="list-style-type: none">Developed scalable full-stack applications by building robust backend logic and creating responsive, user-friendly interfaces using modern JavaScript frameworks and best UI/UX practices.Optimized RESTful APIs and database queries in Unix/Linux environments, achieving 20% improvement in response times for enterprise-grade applications.Collaborated with cross-functional Scrum teams to deliver mission-critical solutions, applying agile methodologies and software design principles for production-ready systems.	
Plasmid Innovations Web Development Intern	Aug 2024 – Oct 2024
<ul style="list-style-type: none">Designed and developed responsive enterprise web applications using modern JavaScript frameworks, improving user engagement by 35% and supporting 500+ concurrent usersApplied object-oriented design patterns and software engineering practices to create maintainable, scalable codebases.	

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Python, C++, HTML5, CSS3, SQL, C

Libraries & Frameworks: React.js, Next.js, Node.js, Express.js, Flask, Spring Boot basics, RESTful APIs

Cloud and DevOps: AWS, Docker, Git, Unix/Linux, Distributed Systems, Microservices Architecture

Databases: PostgreSQL, MongoDB, SQL Server, Database Design & Optimization

CERTIFICATIONS

Google AI Essentials Specialization – Google	Jul 2025
IBM Generative AI Engineer Professional Certificate – IBM	Jun 2025
Full Stack Web Developer – Udemy	Jun 2025

PROJECTS

Real-Time Explainable Credit Intelligence Platform Javascript, Next.js, FastAPI, XGBoost, SHAP	GitHub
<ul style="list-style-type: none">Developed a real-time risk scoring engine aggregating 15+ financial sources to quantify credit exposure, achieving sub-30 second score updates for critical market events.Built a live analyst dashboard visualizing trends across 9+ risk categories, enabling stakeholders to identify and act on financial anomalies in real-time.Implemented Explainable AI to translate ML inferences into narratives, detailing calibrated risk impacts (-25 to +5 points) to support non-technical decision-making.	
Real-Time DDoS Detection & Mitigation Shield Typescript, Next.js, FastAPI, Kafka, Docker	GitHub
<ul style="list-style-type: none">Architected a real-time Intrusion Detection System to mitigate DDoS attacks on core network infrastructure, including VPN gateways, via deep packet inspection of live TCP/IP traffic.Implemented an automated mitigation system using FastAPI and PostgreSQL, leveraging Scapy for network traffic debugging and enabling dynamic Firewall IP blacklisting with instant real-time alerts.	

AWARDS & ACHIEVEMENTS

<ul style="list-style-type: none">Semi-Finalist – Adobe India Hackathon 2025 (Adobe)1st Place – Data 2 Knowledge 3.0 Hackathon (DJ Sanghvi College of Engineering)2nd Place – Frontend Arena Hackathon (Rajiv Gandhi Institute of Technology)Top 6 All-India – Smart India Hackathon (National Level)	Aug 2025 Mar 2025 Mar 2025 Nov 2023
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LEADERSHIP & EXTRACURRICULAR ACTIVITIES

DJ InIT.AI Chairperson & Full-Stack Web Development Mentor	Oct 2025 - Present
<ul style="list-style-type: none">Mentored developers in Full-stack Web technologies, simplifying complex concepts into practical steps to support learning and innovation.Directed operations across 4+ departments, coordinating teams to ensure strict adherence to quality and timelines.	
Computer Society of India (DJCSI) Technical Writer & Marketing Associate	Sept 2024 - Jun 2025
<ul style="list-style-type: none">Authored DJCSI's TechFlix and Protocol Newsletters, featuring 11+ interviews and 18+ articles on tech trends and career insights, demonstrating technical communication skills.Coordinated technical extracurricular activities (350+participants) with focus on community building and networking.	