

Niladri Mandal

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EDUCATION

Lovely Professional University	Punjab, India
Bachelor of Technology in Computer Science and Engineering. CGPA: 8.59	Aug. 2023 – Present
Sonarpur Vidyapith	West Bengal, India
Intermediate, Percentage: 90	May 2021 – May 2023

EXPERIENCE

Full Stack Developer Intern	Nov 2025 – Present
CodeFlare Labs	Remote, India
<ul style="list-style-type: none">Developed and deployed a secure admin dashboard with 6+ feature modules and n8n-based reminder automation resulting in over 40% improvement in operational efficiencyDeveloped an LLM chatbot with vector DB integration, boosting enquiry tracking by 30%	
SDE Co-Op Intern	Nov 2025 – Present
AlgoUniversity – AI Research Company	Remote, India
<ul style="list-style-type: none">Worked as an SDE Co-op Intern at AlgoUniversity, enhancing features using MERN and AWSApplied and optimized modules, reducing delivery time by 30% while gaining hands-on exposure to generative AI and scalable backend design	

PROJECTS

BodyX MERN Stack, Socket.io, Firebase Auth, Python, MediaPipe, OpenCV, WebRTC, AWS	Nov 2025 – Present
<ul style="list-style-type: none">Engineered an AI fitness platform providing personalized workout and diet plans based on user metricsEnforced real-time posture tracking using Python, MediaPipe, OpenCV, and LLM-based feedbackEnabled automated video evaluation improving form accuracy and reducing manual review by 60%Integrated WebRTC live sessions with Razorpay-based premium plans and trainer bookings	
NexusPro MERN Stack, Clerk (Auth), Google Gemini AI, Vercel, RailWay, GCP	Aug 2025 – Oct 2025
<ul style="list-style-type: none">Built an AI career platform with learning roadmaps, resume scoring, and job matchingImplemented Clerk-based secure authentication with under 200ms backend responsesAutomated MCQ delivery using Railway cron jobs, reducing manual effort by 80%	

CERTIFICATES

- Cloud Computing – NPTEL	Jul – Oct 2025
- Mastering Data Structures and Algorithms – Centre for Professional Enhancement	Jun – Aug 2025
- Data Science and ML Training – Placify	Jun – Jul 2024

ACHIEVEMENTS

- Solved 500+ DSA problems across platforms – Codolio
- Secured 3rd position in AlgoUniversity's competitive graph problem-solving challenge.
- Dean's Top 4% student at Lovely Professional University for academic and extracurricular excellence

TECHNICAL SKILLS

Languages: C++, C, Python, JavaScript, PHP

Frontend: React, Next.js, Tailwind CSS, Bootstrap, GSAP, HTML, CSS

Backend: Node.js, Express.js, Python

Databases: MySQL, MongoDB, Redis, Vector Databases (Pinecone)

Generative AI: RAG-based systems, LangChain, Vector embeddings, Prompt Engineering

Cloud & Deployment: AWS, GCP, Railway, Vercel

Tools: Git, GitHub, Postman, Jupyter, Figma

Foundations: DSA, OOP, OS, Computer Networks, DBMS,