

Niladri Mandal

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EDUCATION

Lovely Professional University

Bachelor of Technology in Computer Science and Engineering. **CGPA: 8.59**

Punjab, India

Aug. 2023 – Present

Sonarpur Vidyapith

Intermediate, **Percentage: 90**

West Bengal, India

May 2021 – May 2023

EXPERIENCE

Full Stack Developer Intern

CodeFlare Labs

Nov 2025 – Present

Remote, India

- Developed and deployed a secure admin dashboard with 6+ feature modules and n8n-based reminder automation resulting in over 40% improvement in operational efficiency
- Developed an LLM chatbot with vector DB integration, boosting enquiry tracking by 30%

SDE Co-Op Intern

AlgoUniversity – AI Research Company

Nov 2025 – Present

Remote, India

- Worked as an SDE Co-op Intern at AlgoUniversity, enhancing features using MERN and AWS
- Applied 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

- Engineered an AI fitness platform providing personalized workout and diet plans based on user metrics
- Enforced real-time posture tracking using Python, MediaPipe, OpenCV, and LLM-based feedback
- Enabled 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

- Built an AI career platform with learning roadmaps, resume scoring, and job matching
- Implemented Clerk-based secure authentication with under 200ms backend responses
- Automated 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,