Pranjal Mishra

AI & Software Engineer • Forward Deployed Engineer • C++ • DSA
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Technical Skills

Languages: Python, C++, Java, JavaScript (ES6+), TypeScript, SQL
GenAI & Agentic AI: LLMs, Prompt Engineering, RAG, Embeddings, Structured Outputs, Multi Agent Orchestration, Human in the Loop, n8n
AI/ML Fundamentals: Machine Learning, Deep Learning, Computer Vision Fundamentals
Full-Stack & Frontend: React.js, Next.js, TypeScript, Canvas API
Backend & APIs: FastAPI, Flask, Node.js, REST APIs, API Integration, Microservices, Distributed Systems
Databases: PostgreSQL, MongoDB, Redis, SQL, pgvector
DevOps & Tools: Docker, Linux, Git, GitHub, GitHub Actions, CI/CD, AWS, Postman
CS Foundations: Data Structures & Algorithms, OOP, Operating Systems, Debugging, Performance Optimization

Experience

Bhabha Atomic Research Centre (BARC) **Jun 2026 to Aug 2026**
Software Engineer Intern *Mumbai, Maharashtra*

- Worked on development of an enterprise RAG knowledge assistant with document ingestion, parsing and semantic indexing, implementing contextual retrieval with source grounded response generation to surface relevant information from enterprise documents.
- Contribute to development of specialized AI agents for security assessment, evidence extraction, privacy analysis, framework control mapping and risk prioritisation.
- Learned and worked on development of internal web applications and a lead generation platform using React, Next.js and Node.js, including real-time monitoring dashboards, REST APIs that combine data from multiple sources, and an automated email workflow built on Google Cloud Pub/Sub with asynchronous event-driven architecture for scalable outreach pipelines.

AR Interiors Dream **Dec 2025 to Jan 2026**
Full Stack Developer Intern *Remote*

- Developed canvas tools (brush, shapes, multi cursor) and real time collaboration (live cursors, comments, reactions) for a Figma like platform.
- Developed Dev Mode, a design to code feature that shows live code previews for elements created on the canvas.
- Implemented a PSD parser that converts Photoshop files into JSON and extracts layers and assets for structured design representation.

Rico Auto Industries **Jun 2025 to Aug 2025**
Software Engineer Intern *Bawal, Rewari*

- Worked with core C++ backend code for high-load data-processing pipelines, fixing performance bottlenecks in industry practice.
- Studied custom low-level data structures and manual memory management to remove memory leaks and boost throughput.
- Refactored legacy monolithic subroutines into modular, object-oriented C++ production components.

Projects

Ride Mitra Live | *React, Supabase (PostgreSQL)*

- Built and launched a BlaBlaCar style ride pooling platform for J.C. Bose University with 1,000+ users, featuring real time ride matching, live map tracking, payments and fare splitting.
- Built rider, driver and admin panels with AI driver onboarding (Gemini Vision), real time SOS alerts and geo stamped incident tracking.
- Implemented a custom rerouting algorithm on local map data and streamed live driver locations using Supabase Realtime channels.
- Created a self automated system for Ride Mitra that fetches issues from GitHub and fixes them automatically.

Data Flow Intelligence & DPDP Data Privacy Automation Live | *n8n, FastAPI, PostgreSQL, Gemini*

- Architected a fault-tolerant 9-agent n8n orchestration pipeline (LLM with OpenRouter failover) converting unstructured documents into DPDP Act, 2023 compliance intelligence.
- Developed a multi-tenant FastAPI/PostgreSQL backend with pre-LLM PII redaction, location-tagged evidence indexing and deterministic Mermaid DFD rendering.
- Automated human in the loop Gmail approvals that store validated RoPA registers and export audit ready DOCX, PDF, XLSX and CSV reports.

Credentia Live | *Next.js, API, OCR*

- Built an AI-powered credential verification platform connecting students, universities and companies for document verification.
- Developed verification pipelines using Gemini Vision OCR, JWT-signed tokens, filterable dashboards and role-based admin access.
- Built role-specific APIs for document upload/pre-verification, university review/approval, and verified-profile search for companies.

Education

B. Tech, Electronics & Communication Engineering **CGPA: 8.6**
J.C. Bose University of Science & Technology, YMCA, Faridabad *Aug 2023 to Aug 2027*

Achievements

Winner (1st Prize): IIT Delhi x Google • IGDTU National Hackathon • J.C. Bose Shark Tank • J.C. Bose (IIC) Code Battle.
1st Runner Up: NSUT National Hackathon • LNMIIT x Google Developer Hackathon.
India Innovates 2026: Top 50 out of 27,000+ registered teams.
Student of the Year: J.C. Bose University of Science & Technology, 2026.
Competitive Programming: Specialist on Codeforces • 1760 on LeetCode.