Arnav Singh

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Career Objective

Motivated B.Tech Computer Science student aiming for roles in Software Development and Full-Stack Development. Seeking opportunities to apply my learning to real-world projects, strengthen my technical abilities, and contribute through problem-solving, teamwork, and a growth mindset. Committed to continuous learning and delivering results. Open to relocation across India and available for immediate joining.

Education

Pranveer Singh Institute of Technology — **Kanpur, India**
B.Tech in Computer Science and Engineering | 71%(till 6th semester) — *2023 – Present*

Mother Teresa Mission Higher Secondary School — **Kanpur, India**
Class XII (ISC): 92.4% — Class X (ICSE): 94.6% — *2022 & 2020*

Technical Skills

Languages: C++, Java, JavaScript

Frontend: React.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, JWT

Databases & Cloud: MongoDB, Redis, Firebase

Developer Tools: Git, GitHub, Docker, VS Code, Vim

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Machine Learning

Projects

PhotoLelo | *Face-Recognition Based Media Sharing Application* — **Feb 2026**
Tech Stack: Firebase (Auth & Firestore), Cloudinary, face-api.js, HTML5, CSS3, JavaScript GitHub | Live

- Built a media-sharing platform with separate admin and guest portals, tested with event galleries of 500+ photos
- Enabled guests to scan a live selfie, matched against face descriptors using face-api.js to surface only their own photos within 2–5 seconds
- Designed a Firebase Firestore schema to store photo metadata and face descriptors linked to Cloudinary-hosted images
- Implemented Firebase Authentication for secure admin and guest login flows
- Integrated Cloudinary for scalable photo upload, storage, and delivery from the admin portal

Neuraxis | *Multi-Agent AI Coding Assistant Platform* — **Ongoing**
Tech Stack: MERN, LangChain, Redis, AWS S3, Razorpay, Docker

- Designing Docker-based microservices for gateway, auth, billing, chat, and AI agent services
- Building a LangChain multi-agent system with supervisor routing across coding, vision, search, RAG, and image agents
- Integrating Gemini, Grok, and OpenRouter with task-specific LLM routing
- Developing credit-based billing with Razorpay, usage tracking, Redis caching, and AWS S3 storage

BankTransactionBackend | *Banking System REST API* — **June 2026**
Tech Stack: Node.js, Express.js, MongoDB, Mongoose, JWT GitHub

- Developed a backend banking system with account, transaction, and ledger management using Node.js, Express, and MongoDB
- Implemented JWT-based authentication with role-based access control (admin/user) via custom middleware
- Built deposit, withdrawal, and transfer operations using MongoDB transactions/sessions to ensure atomicity and prevent race conditions during concurrent transfers
- Designed an immutable, append-only ledger recording CREDIT/DEBIT entries per transaction, enforced via Mongoose pre-hooks blocking updates and deletes for audit integrity
- Structured 6 RESTful API endpoints across account, authentication, and transaction routes following an MVC architecture

Certifications

Oracle Cloud Infrastructure Certified AI Foundations Associate — Oracle
Programming Fundamentals using Python - Part 1&2 — Infosys Springboard
Complete Data Science & Machine Learning Bootcamp — Udemy
Mastering Data Structures & Algorithms using C and C++ — Udemy
HTML5 – The Language — Infosys Springboard