PRINCE MEHTA

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EDUCATION

National Institute of Technology (NIT) Jamshedpur 2023 - 2027
B.Tech in Computer Science and Engineering | CGPA: 8.64 / 10.0

VCS Hazaribag (CBSE) 2019 - 2022
Senior Secondary (Class XII): 95.2% | Secondary (Class X): 97.2%

SKILLS

- **Languages:** C++, Python, Java, JavaScript, TypeScript
- **Backend:** Node.js, Express.js, FastAPI, Django, REST APIs, asyncio, Concurrency
- **Databases & Queues:** PostgreSQL, MySQL, MongoDB, Redis, BullMQ, Pinecone, ChromaDB
- **Infrastructure:** Docker, Railway, Render, Vercel
- **Frontend:** React.js, Next.js
- **CS Fundamentals:** Operating Systems, DBMS, Computer Networks, OOP, System Design (HLD & LLD)

EXPERIENCE

AyroPath [ayropath.com] — Freelance Backend Engineer Nov 2025 - Present
- Built the backend (Node.js, MongoDB) of a live diagnostics-booking platform: data models and REST APIs for the test and package catalog, slot-based home sample-collection bookings, user accounts, and digital report storage.
- Built automated data ingestion pipelines that replaced manual administrative entry with validated, programmatic imports.
- Reworked database schemas and queries as requirements evolved, prioritizing data integrity, security, and maintainability.
- Client-reported ~40% reduction in manual administrative effort after rollout.

PROJECTS

Project Udyam Digital — Airtel SYNC Hackathon 2026, Enterprise Track A [Live Demo] 2026
- Built a digital-first onboarding journey for Airtel's Accel Business to replace a paper-heavy, 17.6-day MSME sales cycle (7.36% lead-to-customer conversion), covering a bundle advisor, one-price quote, Smart KYC, and order tracking.
- Implemented Smart KYC with GSTIN/Udyam registry lookups, document-defect detection, and address-proof freshness checks, with consent handling aligned to the DPDP Act, 2023.
- Designed rule-based eligibility and pricing so each business receives a valid bundle with a single, explainable monthly price.

jawab.ai [GitHub]
- Built a multi-service system (Node.js API, FastAPI ML service, React, Docker; deployed on Railway) generating context-aware YouTube replies via a RAG pipeline on Pinecone.
- Moved transcript embedding to a BullMQ/Redis worker queue, keeping long-running work off the request path so the API responds without waiting on embedding jobs.
- Scoped retrieval and few-shot prompts per video to improve reply relevance.

PrivaShield AI [Live Demo]
- Built a privacy-compliance engine (FastAPI, LangChain, Groq; React, Node.js) for automated policy analysis, risk assessment, and permission mapping.
- Designed an asyncio-based concurrent 3-stage pipeline (Extractor, Risk Analyzer, Verifier) with hybrid semantic/TF-IDF retrieval, source-quote validation to flag unsupported LLM claims, and a deterministic 0-100 trust score.
- Added a response cache to avoid redundant LLM calls; shipped a Manifest V3 Chrome extension that surfaces policy insights while browsing.

OPEN-SOURCE CONTRIBUTIONS

Hacktoberfest Contributor Oct 2026
- **Toolbelt:** fixed TypeScript code-generation edge cases, preventing duplicate type identifiers and generating valid interface names for numeric keys.
- **TaskFlow:** added a task statistics API with accurate dashboard counts, plus API documentation and database seeding.
- **ZTM Quest:** built interactive gameplay features, including dining-table and mailbox interaction systems.

ACHIEVEMENTS

- LeetCode Knight (max rating 1945, current 1905), top 4.46% globally (rank 38,014); 650+ problems solved. Handle: prince_mehta123.
- Codeforces Specialist (max 1425), mehtaprince6926; CodeChef 3* (1639), global rank 437 in Starters 249, itss_levi.
- Winner, Web Development Hackathon 2025, Society of Computer Science and Engineering (SCSE), NIT Jamshedpur.

ACTIVITIES

- Society of Computer Science and Engineering (SCSE), NIT Jamshedpur, Member (2024 - Present)
- Programming Club (PCON), NIT Jamshedpur, Member