

Harshit Raj

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Education

B.S. in Data Science and Applications 2024 – 2028
Indian Institute of Technology (IIT) Madras, Chennai, India CGPA: **9.2 / 10.0**

Senior Secondary (XII) — PVSS DAV Public School, Jharkhand 2022 — 91%
Secondary (X) — PVSS DAV Public School, Jharkhand 2020 — 96%

Technical Skills

Languages: Python, JavaScript (ES6+), Java, SQL
Backend: Node.js, Express.js, FastAPI, Flask, RESTful APIs, JWT Authentication, Socket.io
Frontend: React.js, Tailwind CSS, Redux, HTML5, CSS3, Vite
Databases: MongoDB, PostgreSQL, MySQL, SQLite, Redis
Cloud & DevOps: AWS (EC2, S3, SES), Docker, Nginx, CI/CD, Linux
Tools: Git, GitHub, Postman, VS Code

Projects

APIpulse — Multi-Tenant API Monitoring System — [GitHub](#) Mar 2026 – Present
Node.js, Express.js, MongoDB, PostgreSQL, Docker, JWT, REST APIs

- Architecting a **multi-tenant SaaS platform** enabling clients to monitor real-time health, uptime, and performance stats of their APIs with strict tenant-level data isolation across all routes.
- Designing a **modular monolith** using clean architecture principles (domain, data access, HTTP layers separated) with **RBAC + JWT** enforcing per-tenant access control.
- Leveraging both **MongoDB** (metric storage) and **PostgreSQL** (tenant/user management) with **Docker** for consistent, reproducible dev and deployment environments.

DevTinder — Developer Networking Platform — [GitHub](#) Dec 2025 – Jan 2026
Node.js, Express.js, MongoDB, React.js, Socket.io, AWS EC2, AWS SES, Nginx

- Built a full-stack MERN social matching platform with Accept/Reject logic and a real-time chat system via **Socket.io**, handling concurrent connections cleanly.
- Designed efficient **MongoDB** schemas for multi-layered user relationships; automated database cleanup and daily digest emails using server-side **Cron Jobs**.
- Independently deployed the application on **AWS EC2** with **Nginx** as a reverse proxy and configured **AWS SES** for transactional email delivery — zero downtime since launch.

PlacementPro — Campus Job Management System — [GitHub](#) Jan 2026 – Present
Node.js, Express.js, MongoDB, React.js, JWT

- Architected a **Role-Based Access Control (RBAC)** system with **JWT authentication**, enforcing strict separation between Student and Recruiter dashboards across all **REST API** routes.
- Modeled complex NoSQL relationships using **Mongoose** for Job Postings and Applications, optimizing query performance for high-traffic placement drives.
- Built Express.js middleware for input validation and error handling, ensuring fail-closed behavior and consistent **database integrity** under concurrent load.

ParkedIn — Smart Parking Management System — [GitHub](#) 2025
Python, Flask, SQLAlchemy, SQLite, REST APIs, JWT, Jinja2

- Built a full-stack parking management platform using **Flask** with a modular Blueprint architecture, separating admin, user, and vehicle route concerns across independent route handlers.
- Designed a **relational data model** in SQLAlchemy with 6 interconnected tables (User, Vehicle, ParkingLot, ParkingSpot, Reservation, Address) enforcing referential integrity and cascading deletes.