

# Harshit Raj

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## Education

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<b>B.S. in Data Science and Applications</b>	2024 – 2028
Indian Institute of Technology (IIT) Madras, Chennai, India	CGPA: <b>9.2 / 10.0</b>
<b>Senior Secondary (XII)</b> — PVSS DAV Public School, Jharkhand	2022 — 91%
<b>Secondary (X)</b> — PVSS DAV Public School, Jharkhand	2020 — 96%

## Technical Skills

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**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

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**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.

**NetflixGPT — AI-Powered Movie Recommendation Engine** — [GitHub](#) Dec 2025  
*React.js, Node.js, Gemini API, TMDB API, Firebase*

- Developed a responsive **React.js** UI with Redux for state management, handling async API flows and search states across multiple components without performance degradation.
- Orchestrated **Gemini LLM** prompt parsing with live **TMDB API** calls to deliver real-time, context-aware movie recommendations.
- Integrated **Firebase Authentication** for persistent, secure user sessions with Google sign-in support.