Karthik Nair

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EDUCATION

Vellore Institute of Technology
Bhopal , MP
Bachelor of Technology in Computer Science; CGPA: 7.95
Jun. 2022 – Jun. 2026

City Montessori School , Gomtinagar - 1
Lucknow, UP
Class XII ; Percentage: 89.5
Apr. 2021 – Apr. 2022

EXPERIENCE

Tata Motors
Lucknow Plant, UP
Intern
Nov. 2024 - Dec. 2024

- **ReactJs**: Built a ReactJS dashboard for gate entry system, reducing manual processing time by 40% and supporting 200+ daily entries.
- **Data Analytics**: Integrated Power BI visualizations, enabling IT team to analyze 10K+ monthly records and generate real-time insights.
- **Contribution**: Enhanced IT department efficiency by automating reporting workflows, cutting decision-making time by 30%.

PROJECTS

- **Glide — Full Stack Social Media Platform**: ⌂ March 2025
  - Built a full-stack social media platform with **JWT** authentication, modular **REST APIs**, and **MongoDB**.
  - Integrated real-time chat using **Socket.io** to enable instant user messaging.
  - Designed a modular **Express.js** backend with 15+ **REST** endpoints for user data, posts, and comments.

- **Dev Tinder**: ⌂ January 2025
  - Engineered a **Node.js + Express.js** backend with a scalable **MongoDB** schema to handle over 500 simulated active users.
  - Implemented matchmaking algorithms with filters on skills, interests, and availability.
  - Built an interactive **React.js frontend** with Redux, reducing **API** calls by 35 %.

- **Netflix-GPT**: ⌂ November 2024
  - Engineered a recommendation engine using the **OpenAI GPT-3.5 API** to provide personalized movie suggestions.
  - Architected a **React.js + Redux Toolkit** frontend with **fault-tolerant** backend integration.
  - Designed an extensible backend service to fetch movie data, integrate GPT results, and serve recommendations with <200ms response time.

HACKATHONS AND ACHIEVEMENTS

- **Adobe Hackathon**: Cleared Round 1 of Adobe India Hackathon 2025, competing among 2.6+ lakh participants nationwide.
- **Odoo Hackathon**: Successfully developed a MERN stack application under a 24-hour deadline for Round 1 of the ODOO Hackathon, a competition that attracted over 8,800 virtual participants.

PROGRAMMING SKILLS

Languages: Java, JavaScript, TypeScript, SQL
Frameworks: React.js, Next.js, Node.js, Express.js
Databases: MongoDB, PostgreSQL, Prisma ORM
Tools: Git, Docker, REST APIs, Redux Toolkit, Socket.io
Cloud/Deployment: Firebase, Vercel, Render

ADDITIONAL

- **Languages**: Fluent in Hindi, English and Malayalam
- **Certifications**:Python Essentials , Fundamentals of AI and ML , Adobe UI & UX (Graphics Design) , Maven Silicon-VLSI Design