

# Mahendra Khichar

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## Technical Skills

**Programming Languages:** C, C++, Python, JavaScript

**Web Development:** HTML, CSS, React.js, Node.js, Express.js, REST APIs, JWT Authentication

**Databases:** MongoDB, MySQL, ChromaDB

**AI/LLM:** LangGraph, RAG, MCP, vector databases, Prompt Engineering, OpenAI API, Agentic AI Systems

**Tools:** Git, Docker, Postman, VS Code

## Work Experience

**Infosys** | Specialist Programmer Jun 2025 – Present

- Designed and implemented software features for **Optavise**, a healthcare-plan automation platform, improving reliability and scalability across compliance documents including HPBS, SBCs, SPDs, and HPCCs.
- Developed **Agentic AI workflows** using **LangGraph**, Python, Azure, and OpenAI APIs, reducing manual document-update effort by **70%**.
- Designed parallel execution workflows and **human-in-the-loop validation systems**, improving scalability, accuracy, and compliance across automated document updates.

## Personal Projects

**ResumeForge AI** | Multi-Agent AI Platform, LangGraph, OpenRouter **LIVE**

- Developed a multi-agent resume optimization platform using **LangGraph**, coordinating **7 AI agents** for resume tailoring, ATS analysis, and recruiter outreach automation.
- Designed parallel execution pipelines with LLM-based validation, reducing workflow latency by **45%** while improving output reliability.
- Built a fault-tolerant LLM gateway using **OpenRouter**, Gemini, and Groq APIs, and implemented **ChromaDB** semantic search to reduce processing overhead by **10–15 seconds** per upload.

**Candle E-commerce Website** | Full Stack, Admin Panel, Live Deployment **LIVE**

- Built a **React 19 + Vite** storefront with an automated WhatsApp checkout workflow, eliminating transaction fees and reducing checkout friction.
- Engineered an **Express.js v5** and MongoDB backend with concurrent-safe atomic inventory updates to prevent stock race conditions.
- Strengthened production reliability using **Helmet**, rate limiting, CORS policies, and Winston logging for security, monitoring, and debugging.

## Education

**Indian Institute of Information Technology Kota (IIIT Kota)**

B.Tech in Electronics Engineering

2021 – 2025

CGPA 7.6

**KVM, Sikar**

RBSE XII

2021

97.80%

**SVGMS, Didwana**

CBSE X

2019

91.40%

## Achievements

- Solved 600+ problems on LeetCode, GeeksforGeeks, and Code Studio, showcasing strong algorithm and data structure skills.
- Scored under 41k in JEE, demonstrating strong academic abilities in STEM subjects.