

# Anand Raj

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## Skills

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

**Technologies/Frameworks:** Node.js, Express.js, React.js, Langchain, LangGraph, Streamlit, CI/CD, Database, Public Cloud, Hybrid Cloud, Git & GitHub, API Integration, RAG architectures

**Developer Tools:** VS Code

## Certifications

**AWS Solutions Architect – Associate Certification Program**

*January 2025- April 2025*

## Projects

**Automated Outliner Extractor | AI & NLP | Python, NLP, Regex**

*July 2025 – July 2025*

- Built NLP-powered outline extractor with 90%+ accuracy across 500+ PDFs, boosting e-commerce content parsing by 30%.”
- Constructed a series of regular expressions and NLP models to extract nested list items from product descriptions, achieving 95% accuracy and improving data quality for e-commerce.
- Enabled export of generated outlines in clean Markdown and plain text formats.

**Yoga Website | Frontend Development | React.js, JavaScript, HTML, CSS** *August 2024 – November 2024*

- Boosted website performance by optimizing React rendering, cutting load time by 45% (to 1.2s), and increasing user retention by 20%.
- Fortified system security by architecting a JWT-based authentication, reducing unauthorized access attempts by 60% and ensuring role-based protected route access.
- Crafted modern, responsive layouts aligned with UI/UX best practices, resulting in improved user engagement and a polished front-end experience.

**RESTful API Development | Backend/API | Node.js, Express.js, Postman** *January 2025 – February 2025*

- Delivered high-performance RESTful APIs with Express.js, optimizing payload handling and reducing response latency by 25%, supporting 1K+ concurrent requests
- Implemented complete CRUD functionality across POST, GET, PATCH, and DELETE endpoints, ensuring reliable data manipulation.
- Improved API reliability by achieving 100% endpoint test coverage with automated Postman test collections, reducing regression defects by 30%.

**Task Manager | Full Stack | React.js, Node.js, Express.js, MongoDB**

*April 2025 – June 2025*

- Engineered a scalable task management system using the MERN stack, featuring a responsive UI and modular component design for maintainability.
- Strengthened the task management system with a robust JWT authentication layer, preventing unauthorized access and reducing vulnerabilities by 60%.
- Enhanced user interactivity by developing optimized custom React hooks, improving real-time task responsiveness by 40% and reducing re-render overhead.

## Achievements & Co-Curricular

• **Adobe India Hackathon (AI & LLM):**

- Built an offline intelligent document analysis system that semantically filters relevant PDF sections using vector embeddings based on persona and job-to-be-done, and generates structured insights via a quantized 1.6B parameter StableLM model (1GB, CPU-only), processing 3–5 documents in under 60 seconds.
- Created a Streamlit-based local User Interface with structured JSON output and ensured on-device computation for data privacy.

• **Competitive Programming:** Solved 200+ problems on LeetCode; Global Rank 595000.

• **Co-Curricular:** Winner at Aarambh (College Cricket Tournament); active in Football.

• **Hobbies:** Listening to music.

• **Languages:** English, Hindi.

## Education

**B.Tech in Computer Science and Engineering, VIT Bhopal**

CGPA: 7.89

*Sep 2022 – Ongoing*