

AASHU KUMAR

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Education

Birla Institute of Technology and Science, Pilani

Bachelor of Science in Computer Science

2024 – 2027

CGPA: 8.55/10

Technical Skills

Languages: Java, Python, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React.js, Express.js, Spring Boot, Tailwind CSS, LangChain

Databases & Cloud: MongoDB, MySQL, ChromaDB, Vercel, Netlify

Developer Tools: Git, GitHub, Docker, Linux, Postman, VS Code

Core Concepts: Data Structures & Algorithms, OOPs, DBMS, Operating Systems, Computer Networks, REST APIs, JWT Authentication, Multithreading, RAG Systems

Experience

Outlier

AI Trainer

Nov 2024 – Jan 2025

Remote

- Evaluated and improved AI-generated coding and mathematics responses for large language models.
- Provided structured feedback on reasoning quality, response accuracy, and prompt behavior.
- Contributed to prompt refinement and response optimization workflows for AI-assisted systems.

Projects

Multi-Threaded HTTP Server | *Python, Socket Programming, Multithreading*

[GitHub](#)

- Developed a concurrent HTTP/1.1 server using low-level socket programming and thread pooling in Python.
- Implemented persistent connections, request parsing, logging, and secure static file serving.
- Designed concurrent request handling architecture to efficiently support multiple client connections.
- Strengthened understanding of networking fundamentals, concurrency, and backend systems design.

NotebookLLM - RAG Platform | *Python, LangChain, Gemini, ChromaDB*

[Live Demo](#) | [GitHub](#)

- Engineered a Retrieval-Augmented Generation (RAG) platform for contextual document interaction and semantic search.
- Built document ingestion and embedding pipelines using LangChain and ChromaDB for efficient retrieval.
- Implemented conversational querying workflows enabling context-aware responses across uploaded documents.
- Integrated vector search and LLM-based response generation to improve information accessibility.

Persona-Based AI Chatbot | *React.js, Node.js, OpenAI SDK, Gemini*

[Live Demo](#) | [GitHub](#)

- Built an AI-powered instructor persona system supporting contextual and personality-driven conversations.
- Implemented conversational memory handling for maintaining coherent multi-turn interactions.
- Designed responsive frontend interfaces using React.js and integrated backend APIs using Node.js.
- Focused on improving personalized learning experiences through adaptive AI-generated responses.

Scory - Real-Time Sports Scoring Platform | *React.js, Node.js, MongoDB, WebSockets* [Live Demo](#) | [GitHub](#)

- Developed a real-time sports scoring platform with low-latency updates using WebSocket communication.
- Implemented JWT authentication, role-based authorization, and secure session management.
- Built scalable backend APIs and deployed the application using Vercel and Render.
- Enhanced synchronization between multiple connected users and live scoring dashboards.

Achievements

- Achieved a maximum LeetCode contest rating of **1573**.
- Solved **400+** Data Structures and Algorithms problems across coding platforms.
- Selected among the top **800 teams** out of **31,000+** registrations in the OpenEnv Hackathon finale.
- Open-source contributor during Hacktoberfest and active participant in technical hackathons.

Leadership & Community

Campus Partner – Perplexity

Oct 2025 – Nov 2025