

AYUSH JYOTI

Biharsharif, Bihar

📞 9608891616 ✉ ayushjyoti0321@gmail.com 🌐 [ayushjyoti](#) 🔗 linkedin.com/in/ayush-jyoti 🐙 github.com/ayushjy

Education

Chandigarh University

Bachelor of Engineering in Computer Science (CGPA of 7.3)

August 2021 - June 2025

Punjab, India

Nalanda Shodh Sansthan

Class XII (BSEB) - 74.4%

Apr 2017 - Mar 2019

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St. Joseph Academy

Class X (CBSE) - 10 CGPA

Apr 2016 - Mar 2017

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Projects

Queryhub - AI Agent based chat app with RAG | *LangChain, OpenAI, Pinecone, Redis, S3, MongoDB, React, Express*

- Architected an AI-driven chat system leveraging LangChain agents and Retrieval-Augmented Generation (RAG).
- Integrated Pinecone for high-dimensional vector search and Redis BufferMemory to maintain contextual conversations.
- Engineered secure file storage with AWS S3 and role-based user access via JWT authentication.
- Streamlined real-time question-answering by embedding document chunks and dynamically retrieving relevant context.

InfoPilot - Real-Time Web Search Agent | *Langchain.js, OpenAI, SerpAPI, MongoDB, Redis, React, Express*

- Built a multi-turn conversational agent using LangChain and SerpAPI to deliver real-time web search results.
- Configured Redis-based BufferMemory for session-scoped context retention.
- Crafted a ChatGPT-style interface with isolated session-based history using MongoDB.
- Deployed scalable infrastructure on Vercel and Render to ensure performance and reliability.

Skillsphere - EdTech Platform | *Next.js, Redux Toolkit, Firebase, Tailwind*

- Developed a learning portal offering curated tech content, integrated with real-time project sharing and feedback.
- Deployed authentication using NextAuth and enhanced scalability with Firebase backend services.
- Optimized performance via static site generation (SSG) for faster load times and improved SEO.

Technical Skills

Languages: JavaScript, C++, Python

Frameworks/Tech: React.js, Next.js, Node.js, Express.js, Langchain.js, Redux Toolkit, Tailwind CSS, Bootstrap, MongoDB, Pinecone, Firebase, AWS S3

Developer Tools: Git/GitHub, Postman, VS Code, Vercel, Render

Concepts: REST APIs, JWT, BufferMemory, RAG

Certifications

Coursera

- Completed **Principles of UX/UI Design** and **C++ Selection and Iteration**.
- Acquired foundational web skills via **Introduction to Web Development with HTML, CSS, JavaScript**.

LinkedIn Learning

- Earned certification in **Creativity and Critical Thinking**.

Achievements

- Ranked in the **Top 5** in a national 30 Day Coding Challenge by Aryan Singh (YouTube Link).
- Successfully cleared the **Wipro Future Skills Exam**.