

Arvind Kumar

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EDUCATION

• Indian Institute of Information Technology, Ranchi

Aug 2022 – July 2026

B.Tech (ECE - Specialization in Embedded System and IOTs)

CGPA: 8.58/10

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming, Web Development

TECHNICAL SKILLS

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

Frontend Technologies: React.js, HTML, CSS, Bootstrap, Tailwind CSS, Responsive Web Design

Backend Technologies: Node.js, Express.js, Flask, RESTful APIs, WebSocket, Socket.IO

Databases: MongoDB, MySQL, Pinecone Vector Database

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD Pipeline, GitHub Actions

AI/ML Technologies: RAG, NLP, GenAI

Tools & Frameworks: Git, GitHub, VS Code, Postman, LangChain

Projects

• CodeSync - Real-Time Collaborative Code Editor [GitHub](#) [Live](#)

March 2025 – July 2025

React.js, Node.js, Socket.IO, MongoDB, Express.js, Piston API, tldraw

- **Real-Time Collaboration:** Engineered a live code editor with **Monaco Editor** and **Socket.IO**, supporting instant code sync for **10+ concurrent users**.
- **Interactive Whiteboard:** Built a collaborative **tldraw** canvas with persistent room states, enabling **5+ simultaneous editors**.
- **Multi-Language Execution:** Integrated **Piston API** for real-time execution of **JavaScript, Python, Java, and C++** with a **2-second average runtime**.
- **Room Management:** Developed a robust presence system featuring **typing indicators**, seamless **join/leave**, and support for **20+ active rooms**.

• ConnectUs - AI-Powered Networking Platform [GitHub](#) [Live](#)

July 2025

React.js, Node.js, MongoDB, Web3.js, Ethers.js, AI, NLP, Blockchain

- **Authentication & Profile Management:** Secured user **authentication (JWT/session)** and crafted profiles with **AI-extracted skills**.
- **Job Posting & Social Feed:** Enabled authenticated **job posting** and launched a social feed. Offered advanced filtering by **skill, location, and tags**.
- **Blockchain Payment Integration:** Pioneered seamless **blockchain payments** for platform fees via **MetaMask**, ensuring post submission only upon successful, confirmed transactions (100% validation).
- **AI Enhancements:** Leveraged **AI for Job ↔ Applicant Matching (NLP)** reaching 80% match accuracy, alongside **Resume Skill Extraction** and **Smart Suggestions** for jobs based on user profiles.



• Medibot - AI Healthcare Assistant [GitHub](#) [Live](#)

Feb 2025 – June 2025

Python, Flask, LangChain, Pinecone, AWS, GenAI, RAG, CI/CD

- **Document Processing:** Automated **PDF/DOCX** ingestion into **vector embeddings**, handling **1K+ pages** for real-time medical queries.
- **RAG Pipeline:** Designed a **RAG** system combining **GenAI model** with semantic search for accurate medical responses.
- **Vector Database:** Integrated **Pinecone** for intelligent document retrieval with custom **healthcare knowledge base**.
- **Backend API:** Developed a **Flask** app with **LangChain**, supporting **1K+ context-aware medical conversations** daily.

ACHIEVEMENTS AND CERTIFICATIONS

- **Ranked** in the top **11%** on [Leetcode](#) with a rating of (**max.1736**), having solved over **250+** problems.
- **Achieved rank 701** in **LeetCode Weekly Contest**, demonstrating strong algorithmic skills.
- Solved over **400+** problems across various coding platforms. [Codolio Profile](#)
- **Certifications:** Frontend Developer  Backend Developer  Gen AI 