

# ARYAN KUMAR RAI

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Java

**Core Concepts:** Object Oriented Programming, Data Structures And Algorithms, System Design

**Frontend:** Next.js, React.js, Redux, Tailwind CSS, HTML5, CSS3

**Backend:** Node.js, Express.js, RESTful APIs

**Database:** MongoDB, SQL, Chroma DB

**DevOps:** Docker, Git, GitHub, Amazon Web Services(EC2, S3, IAM)

**Gen AI:** LangGraph, LangChain, RAG(Retrieval Augmented Generation), Open AI, Gemini

**Other:** Vercel, Render, Authentication, Postman, Version control, JWT, AI Integration, WebSocket

## EXPERIENCE

### Full Stack Developer Intern

May 2025 – August 2025

Quantinent Analytics, Ahmedabad, Gujarat, India

- Automated data extraction by integrating Tesseract.js OCR, reducing manual data entry time by 20%.
- Designed and deployed RESTful APIs using Express.js, handling 100+ daily requests with optimized performance.
- Streamlined deployment processes by containerizing services with Docker, improving deployment efficiency by 30%.

## PROJECTS

### CortexHub – Agentic AI Knowledge System (LangGraph, ChromaDB, Node.js, Next.js)

2025

[Frontend](#) [Backend](#)

- Built responsive, collaborative frontend using Next.js, Tailwind CSS, and D3.js for visualizing AI-driven knowledge graphs and agent decisions.
- Developed backend APIs with Node.js and LangGraph for orchestrating LLM tool-use workflows, user context management, and streaming completions.
- Integrated a hybrid data layer with MongoDB for dynamic user/session storage, MySQL for structured relational data (logs, usage metadata), and ChromaDB as a vector store for long-term memory and embedding-based retrieval.
- Designed agentic LLM flows using LangGraph + LangChain tools with Retrieval-Augmented Generation (RAG), document loaders, and memory via ChromaDB.

### Real-Time Collaborative Code Editor (Next.js, Convex, TypeScript)

2025

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

- Developed a real-time collaborative code editor enabling simultaneous editing using Operational Transforms (OT).
- Integrated Clerk for user authentication and LemonSqueezy for subscription-based monetization.
- Ensured low-latency performance using Convex backend and implemented workspace management for teams.

### Market Seasonality Explorer (React, Binance WebSocket, TypeScript)

2025

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

- Created a responsive dashboard visualizing seasonal patterns in crypto markets using Binance real-time WebSocket data.
- Implemented interactive daily/weekly/monthly heatmaps with tooltips, keyboard navigation, and CSV export.
- Supported alert configuration and theme toggling with state management and modular React components.

## EDUCATION

### B.Tech in Computer Science and Engineering

Nov 2022 – August 2026

Raj Kumar Goel Institute of Technology

- Relevant coursework: **Operating Systems, Data Structures and Algorithms, Cloud Computing, DBMS, Software Engineering**

## ACHIEVEMENTS

- Solved **400+ DSA problems** (LeetCode/GeeksforGeeks).
- Certifications:** Complete Data Structure and Algorithm Bootcamp (Udemy), Full Stack Developer Bootcamp (Udemy), Introduction to Generative AI (Microsoft), MongoDB Atlas (MongoDB), Oracle Certified Foundations Associate, AI Essentials V2 (Coursera).