

Krishna Tripathi

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EDUCATION

Indian Institute of Information Technology, Nagpur
B.Tech in Computer Science and Engineering

Dec 2021 – May 2025
Nagpur, India

TECHNICAL SKILLS

Languages: C, C++, JavaScript, TypeScript, Go, Python, Java

Frameworks & Tools: ReactJS, Node.js/ExpressJS, EchoLabstack (Go), TailwindCSS, Git, Docker, PostgreSQL, YugabyteDB, MongoDB, Python (Pandas, NumPy), SQL, BigQuery

EXPERIENCE

YugabyteDB <i>Software Engineer Intern → Software Engineer I</i>	Sept 2024 - Present Bengaluru, India
<ul style="list-style-type: none">Integrated YugabyteDB embedding store into LangChain4j, enabling vector similarity search with HNSW indexing and reducing query latency by 15%. (commit – docs)Implemented pypython extension in YugabyteDB, enabling in-database Python execution for 500+ vector operations per second while improving data security by 60% by containing sensitive operations within the database.Engineered Copilot for Voyager using LangGraph, Python, and MCP with RAG architecture, reducing migration setup time by 60% for 100+ users via conversational AI assistance and automated documentation updates.Designed xCluster backend services (Go) and UI, improving data resiliency by 40% and optimizing DR node selection, reducing response time from 450ms to 120ms.Integrated lag metrics in C++ for Prometheus and UI visualization, optimizing APIs to improve response times by 35%.Optimized Go test pipelines using Jenkins and Groovy scripts, running tests pre-deployment instead of on every commit, reducing CI/CD runtime by 40% and saving 3+ hours daily in build times.Architected data pipelines using TypeScript/Go on Cloud Run, processing growth metrics and GCS data through MadKudu for lead scoring, syncing to Salesforce CRM and BigQuery, improving sales operations by 45%.	
Zluri <i>Software Engineer Intern</i>	Aug 2024 - Sept 2024 Bengaluru, India

PROJECTS

CineSphere: Movie Discovery Platform ReactJS, Node.js, YugabyteDB, Sequelize, Docker, GitHub Actions, TailwindCSS, Redux Toolkit	April 2024 – Present SOURCE CODE LIVE DEMO
<ul style="list-style-type: none">Integrated YugabyteDB with Sequelize ORM and SSL, ensuring 99.9% uptime for 100+ MAU and accelerating queries by 40%.Configured intelligent caching via GitHub Actions, reducing API costs by 75% and page load from 3.2s to 1.8s. Deployed JWT refresh token rotation with HTTP-only cookies for zero XSS vulnerability.Engineered features: Graph-based social network (BFS), rich-text editor (DOMPurify), lazy loading, Framer Motion animations, and serverless Vercel deployment, decreasing page load by 450ms and improving perceived performance by 25%.	
YB Voyager Copilot: AI-Powered Database Migration Assistant LangGraph, FastAPI, React/Next.js, Python, MCP, Docker, YugabyteDB, PostgreSQL, RAG	Jan 2025 – Present DOCKER HUB ARCHITECTURE DEMO

ACHIEVEMENTS

Worked on "Best Use of AI" project in hackathon - YB Voyager Copilot. Knight level (1994 - Top 2.58%) on LeetCode with 1300+ problems solved (430K+ users), 3-star (1735 - Top 4.2%) on CodeChef (200K+ users). **3rd place** in Algorithmia Coding Contest, Tantrafiesta 2023. Ranked 426th in CodeChef Starters 113 Div 2 (11K+ participants).