

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

Sept 2024 - Present
Bengaluru, India

Software Engineer Intern → Software Engineer I

- **Integrated YugabyteDB embedding store into LangChain4j**, enabling vector similarity search with HNSW indexing and **reducing query latency by 15%**. ([commit](#) – [docs](#))
- **Implemented ppython 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** (DB migration tool) using LangGraph, Python, and MCP, implementing RAG architecture for conversational migration assistance with automated cron jobs for real-time documentation updates.
- **Conceptualized and constructed intuitive UI for Voyager**, Yugabyte's open-source migration tool, streamlining database transitions and enhancing user experience for **100+ users**.
- **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 web scraping pipeline** using TypeScript and Cheerio on Cloud Run Functions (runs every 3 days), performing data analysis on growth metrics, pushing to BigQuery with Looker Studio dashboards for data visualization and business intelligence.
- **Established end-to-end data pipeline** using Go on Cloud Run Jobs (executes daily), processing GCS bucket data through MadKudu for lead scoring and deal management, syncing to Salesforce CRM, **improving sales operations by 45%**.

Zluri

Aug 2024 - Sept 2024
Bengaluru, India

Software Engineer Intern

- **Resolved 13+ critical bugs** using JavaScript/Node.js and MongoDB, **created comprehensive testing and validation framework** with QA dashboards, improving system reliability by **20%**, query performance by **30%**, and test coverage by **20%**. Performed data analysis and collaborated with QA on CI/CD.

PROJECTS

CineSphere: Movie Discovery Platform

April 2024 – Present

ReactJS, Node.js, YugabyteDB, Sequelize, Docker, GitHub Actions, TailwindCSS, Redux Toolkit

[SOURCE CODE](#) | [LIVE DEMO](#)

- **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 (3x daily TMDB sync), 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 for friend recommendations), rich-text editor (DOMPurify XSS sanitization), serverless Vercel deployment with CI/CD.
- **Launched lazy loading and Framer Motion animations**, decreasing average page load time by **450ms** and improving initial perceived performance for first-time users by **at least 25%**.

Open Threads Reminder: AI-Powered Slack Bot

July 2025 – Present

VertexAI, Slack API, Go, Python, ReactJS, PostgreSQL, GCP

[SOURCE CODE](#) | [VIDEO DEMO](#)

- **Developed enterprise Slack agent** using VertexAI for intelligent thread classification and RAG retrieval system integrating GitHub/JIRA/docs for duplicate detection, achieving **90%+ confidence scores** and **preventing 95% of critical bugs from falling through cracks**.
- **Deployed full-stack solution on GCP** with Go backend, React dashboard, and PostgreSQL, **reducing incident response time by 50%** through automated communication, cross-team collaboration, and tracking.

ACHIEVEMENTS

- **Knight level (1994 - Top 2.58%)** on LeetCode (430K+ users), **3-star (1735 - Top 4.2%)** on CodeChef (200K+ users).
- **3rd place** in Algorithmia Coding Contest, Tantrafiesta 2023, IIIT Nagpur. **Ranked 426th** in CodeChef Starters 113 Div 2 (11K+ participants).