

# Krishna Tripathi

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## EDUCATION

Indian Institute of Information Technology, Nagpur  
B.Tech in Computer Science and Engineering (Expected May 2025)

Dec 2021 – May 2025  
Nagpur, India

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** HTML, CSS, ReactJS, ExpressJS, EJS, EchoLabstack (GoLang), PUG, Material UI, TailwindCSS

**Developer Tools & Platforms:** Git, GitHub, VS Code, Postman, Docker

**Courses:** Operating Systems, Computer Networks, OOPS, Database Management Systems, Data Structures and Algorithms, Distributed Systems and Computing, Cryptography,

## EXPERIENCE

### YugabyteDB

Sept 2024 - Present

Software Engineer Intern → Software Engineer I

Bengaluru, India

- Built the **Analysis History** feature for schema migration tracking, improving traceability by **30%**. Also wrote **Java Unit tests** for the same, making the system more robust and less prone to bugs and faults.
- Designed xCluster backend services (Go) and UI, improving data resiliency by **40%**. Implemented **Dijkstra's algorithm** using graph data structures to optimize 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%**.
- **Techstack:** TypeScript, Go, ReactTS, Python, Docker, Java, PostgreSQL, YugabyteDB.
- **Built automated data pipeline** using web scraping to extract growth metrics from 10+ websites, ingested data into BigQuery, and created Looker Studio dashboards, **reducing manual reporting time by 60%**.
- **Designed end-to-end data integration pipeline** transferring data from Scarf analytics to GCS bucket, then to BigQuery for processing, routing through MadKudu for lead scoring, and finally syncing to HubSpot and Salesforce, **streamlining sales operations by 45%**.

### Zluri

Aug 2024 - Sept 2024

Software Engineer Intern

Bengaluru, India

- **Fixed 13+ critical bugs** and built automated API testing framework with monitoring dashboards, improving **system reliability by 20%**, **query performance by 30%**, and **test coverage by 20%**.
- **Collaborated with QA teams** on CI/CD pipelines and code review processes. **Techstack:** NodeJS, ReactJS, MongoDB.

## PROJECTS

### Cine Critique: Movie Review App

April 2024 – Present

ReactJS, Tailwind CSS, Cheerio, NodeJS, MongoDB, Mongoose, Redux Toolkit, Gemini, TMDB, Firebase

**SOURCE CODE**

- **Built responsive React platform** with Lighthouse performance score of 95+, featuring personalized watchlists and comment system that **increased user engagement by 30%** and sign-ups by **20%**.
- **Implemented movie scraping using Cheerio** and designed efficient graph structures for user connections, reducing retrieval time by **50%** and increasing session duration by **25%**.
- **Integrated Firebase authentication** and user analytics dashboards with custom caching layer, reducing page load times by **20%** and improving review accuracy by **25%** through third-party API integration.

### Open Threads Reminder: AI-Powered Slack Bot

July 2024 – Present

VertexAI, Slack API, ReactJS, NodeJS, Python, Google Cloud Platform, LLM Integration

**SOURCE CODE** | **DEMO**

- **Architected enterprise Slack agent** using VertexAI for intelligent thread classification (Open/Closed/Duplicate), automated JIRA/GitHub ticket tracking, and AI-generated stakeholder summaries, **preventing 95% of critical bugs from falling through cracks**.
- **Implemented RAG retrieval system** integrating GitHub issues, JIRA tickets, and YugabyteDB docs for duplicate detection, achieving **90%+ confidence scores** for automated responses.
- **Built full-stack dashboard** with Go backend and React frontend for conversation management, deployed on Google Cloud Platform with PostgreSQL backend, **reducing incident response time by 50%**.

## ACHIVEMENTS

- Attained **Knight level (1944 - Top 5.8% of 430,000+ participants)** on **LeetCode**. Earned a **3-star rating (1735 - Top 4.2% of 200,000+ participants)** on **CodeChef**.
- **Secured 3rd place in Algorithmia Coding Contest at Tantrafiesta 2023**, IIIT Nagpur. Achieved the 17th position in the Coderush Coding Challenge, April 2023, IIIT Nagpur.
- **Ranked 426th in CodeChef Starters 113 Div 2** (out of 11,000+ participants). **Global rank of 1219 in LeetCode Biweekly Contest 112** (out of 28,000+ participants).