Krishna Tripathi

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EDUCATION

Indian Institute of Information Technology, Nagpur   Dec 2021 – May 2025
B.Tech in Computer Science and Engineering (Expected 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   *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%** and setup efficiency by **35%**. Used **graph data structure** for Dijkstra's algorithm to find the nearest DR node, reducing avg. time from **450ms to 120ms**. Spearheaded **API optimization efforts**, improving response times by **35%**. Created detailed xCluster documentation, improving knowledge transfer efficiency by 20%.

• **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.

Zluri   Aug 2024 - Sept 2024
Software Engineer Intern   *Bengaluru, India*

• **Fixed 13+ critical bugs** and optimized backend, improving **system reliability by 20%** and **data handling speed by 25%**.

• Improved **MongoDB queries** and collaborated with QA, reducing query time by **30%** and defect resolution by **40%**.

• **Automated API testing** and built monitoring dashboards, increasing test coverage by **20%** and diagnostics by **30%**.

• **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`

• Created a responsive React-based platform with a Lighthouse performance score of 95+, increasing sign-ups by 20%. Integrated personalized watchlists and a comment system, improving engagement by 30%.
• Designed efficient graph structures, reducing retrieval time for user connections by 50%. Implemented movie scraping using Cheerio, enhancing recommendations and increasing session duration by 25%.
• Leveraged Firebase for secure user authentication, reducing login issues by 10%. Added user analytics dashboards, providing insights into engagement trends and boosting active users by 15%.
• Developed a custom caching layer, reducing page load times by 20%. Integrated third-party APIs for real-time movie ratings, improving review accuracy by 25%.

Pro Resume: Resume Builder App   July 2024 – August 2024
ReactJS, CSS, Tailwind CSS, ShadCN UI, PostgreSQL, Gemini API, Clerk, Docker, NodeJS   `SOURCE CODE`

• Enhanced security protocols, reducing vulnerability reports by 25%. Used Gemini API for tailored job insights, improving resume relevance by 35%.
• Deployed Docker for containerized environments, reducing deployment time by 20%. Created a user-friendly application with responsive templates, increasing completion rates by 50%. Optimized backend with PostgreSQL and ExpressJS, improving data retrieval speed by 40%.. Integrated a PDF generation service, improving export quality and reducing errors by 15%.

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).