Laxman Singh G

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Summary

Computer Science undergraduate (2026) with strong foundations in Data Structures, Algorithms, and core computer science concepts. Hands-on experience building and debugging scalable full-stack systems, AI-powered applications, and API-driven platforms with a focus on reliability, performance, and observability. Seeking an AI Agent Reliability Engineer / Software Engineering Intern role to ensure stability and correctness of AI-generated applications in production environments.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript.

CS Fundamentals: Data Structures and Algorithms, OOP, Operating Systems, DBMS, Computer Network.

Frameworks: React.js, Node.js, Express.js, Tailwind CSS.

Databases and Tools: MongoDB, MySQL, Git, GitHub, VSCode, Postman, Docker.

Projects

Insightify - Social Media Analytics Platform *Github Link*

- Built a Dockerized microservices platform with an NGINX API Gateway, improving service isolation and reducing local setup time by approximate 60 percent.
- Developed a React + TypeScript analytics dashboard with responsive UI and interactive charts, reducing average insight discovery time by approximate 40 percent.
- Implemented secure OAuth 2.0 integrations for YouTube, Instagram, Facebook and Reddit with centralized token refresh handling achieving 95 percent auth success rate in testing.
- Automated hourly analytics ingestion using cron jobs and optimized MongoDB queries, cutting dashboard load time from approximately 1.7s to 450ms and enabling PDF/CSV/Excel exports.
- Tools Used: MERN, TypeScript, Docker, Nginx, Tailwind CSS.

AI-Powered RFP Management System Github Link

- Built a full-stack RFP automation platform using React, Node.js, Express, and MongoDB, managing vendors, proposals, and procurement workflows end-to-end.
- Integrated open-source LLMs (Llama 3 via Ollama) to generate structured RFPs and parse vendor emails, reducing manual processing time by approximately 70 percent.
- Developed dynamic UI dashboards and AI-driven comparison logic to evaluate vendors and surface recommendations, improving decision speed by approximately 40 percent.
- Eliminated paid AI API dependency by running local inference, saving an estimated 50 - 200 dollar per month in operational costs.
- Tools Used: MERN, Ollama, Tailwind CSS.

CostGuard – API Usage Analytics and Cost Guard Platform Github Link

- Designed and implemented a microservices-based API analytics platform with a centralized NGINX API Gateway handling authentication, routing, rate limiting, and security headers.
- Built real-time API observability pipeline capturing request metrics (latency, error rate, usage) and aggregating insights using Node.js, Express, and MongoDB.
- Developed a cost estimation engine to compute API usage costs per endpoint and user, enabling cost-aware backend monitoring.
- Created a React + TypeScript dashboard with auto-refreshing KPIs, usage trends, latency analysis, endpoint performance, and cost breakdown visualizations.
- Tools Used: MERN, TypeScript, Docker, Nginx, Tailwind CSS.

Education

Reva University - B.Tech in Computer Science and Information Technology Nov 2022 – June 2026

- CGPA: 8.79/10.0

Sheshadripuram PU College - Pre-University Course (Science, PCMC) June 2020– June 2022

- Percentage: 93.5/100.0