Gaurav Singh

Software Engineer

axle-blaze



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PROFESSIONAL EXPERIENCE

COGNITIVE VIEW | SOFTWARE ENGINEER

July 2024 - Current | Bhubaneswar, India

- → Secured the platform with mTLS, **JWT-based authentication**, and hardened session management practices.
- → Architected and optimized FastAPI-based microservices for asynchronous, lowlatency processing.
- → Engineered the core backend hub for seamless, high-performance integration between the frontend and LLM-based microservices.
- → Built a graph-based workflow engine using Langraphs, automating complex decision-making and operational flows.
- → Implemented Kafka to enable resilient, real-time communication across distributed microservices.
- → Deployed backend services to AWS EKS with automated CI/CD pipelines; possess foundational experience in **Terraform** for infrastructure as code.
- → Managed hybrid cloud infrastructure across AWS and Azure, ensuring consistent deployments, automation, and cross-platform scalability.
- → Designed and tuned MongoDB schemas for scalable performance, including vector indexing to power semantic search in LLM-integrated features.
- → Led observability implementation using **Prometheus**, **Grafana**, **Sentry**, and **DataDog** to enable monitoring and alerting.

BOOSSTI S.A. | FRONTEND DEVELOPER INTERN

Dec 2023 - March 2024 | Remote

- → Developed user interfaces with TypeScript, ReactJS, and NextJS, boosting user engagement.
- → Enhanced efficiency in software delivery and deployment through effective collaboration on AWS-based CI/CD.
- → Contributed to increased user engagement through interface development.

PROJECTS

REAL-TIME COLLABORATIVE DESIGN TOOL | NEXT.JS | FASTAPI | WEBSOCKETS

- → Developed a real-time collaborative design platform similar to Figma, enabling multiple users to edit a shared canvas simultaneously.
- → Utilized **fabric.js** for rendering and manipulating canvas elements such as rectangles, text, groups, and images with full interactivity.
- → Implemented real-time synchronization using WebSockets between frontend and backend to reflect changes instantly across all connected clients.

AGENTIC AI WORKFLOW ORCHESTRATOR | PYTHON | LANGCHAIN | KAFKA

- → Developed a LLM-powered agent with LangChain to monitor GitHub CI/CD pipelines, analyze logs, and suggest fixes in real time.
- → Leveraged Kafka for event-driven triggers (e.g., push events, pipeline failures) and **GitHub API** to fetch pipeline status, logs, and re-trigger workflows.
- → Used AWS Secrets Manager for secure token management and implemented autofix PRs with code suggestions for failed builds.

SKILLS

PROGRAMMING

Proficient:

 Python • JavaScript • Typescript • SQL • MongoDB

Experienced:

•Latex • C++

Familiar:

Java •

LIBRARIES/FRAMEWORKS

• FastAPI • Langchain • Flask • React.js • Next.js

TOOLS/PLATFORMS

- Git Kubernetes Terraform
- AWS Azure Wordpress Docker • Kafka

EDUCATION

IIT, BHUBANESWAR

DUAL DEGREE June 2019 - April 2025 CGPA: 8.43 / 10

ACHIEVEMENTS

- Knight at LeetCode (Max Rating of 2008) and solved over 1350 problems on LeetCode. LEETCODE
- 4 Star at CodeChef (Max Rating of 1841) **CODECHEF**.
- International Collegiate Programming Contest (ICPC) regionalist in 2023.
- Advanced to the third round of TVS Credit's hackathon, achieving a top 300 position out of 51,414 competing teams.
- Secured a global rank 24 and college rank 3 in CodeSprint organized by Neuromancers, IIT Bhubaneswar.