

Shrish Raj Gupta

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SUMMARY

Software Engineer at BrowserStack building backend and AI systems, including LLM orchestration pipelines, memory evaluation frameworks, and LangChain-based provider integrations. Previously at Groww, delivered Spring Boot microservices and improved engineering reliability across multiple pods. Strong foundation in distributed systems, data structures, and system design.

EXPERIENCE

• BrowserStack

September 2025 - Present

Software Engineer, Backend

- Migrated LLM backend from **LiteLLM** to **LangChain** by implementing explicit provider-level integrations and output validation pipelines, standardizing format consistency across the majority of LLM providers.
- **Evaluated external memory providers** (*Supernemory*, *Mem0*) against golden datasets, achieving under 15% retrieval noise and enabling data-driven selection of **persistent memory architecture** for LLM pipelines.
- Integrated TestOps (Langfuse) capabilities including evaluation frameworks and **prompt life-cycle management into LLM pipelines**, improving observability and SDK instability risks ahead of production rollout.
- Implemented **KEDA-based auto-scaling by analyzing production traffic** patterns via BigQuery (daily usage, median and peak load), improving resource utilization and system responsiveness under variable load conditions.

• Groww

Jan 2025 - July 2025

SDE Backend Intern, Groww

- **Integrated SonarQube across multiple microservices**, enabling continuous code quality checks, increasing test coverage to 65%, and driving bug-bash initiatives that reduced bugs by 70% and code smells by 90%.
- **Migrated Metabase dashboards to the EOD Portal** using Factory and Strategy design patterns, and integrated Redis caching to reduce dashboard latency by 25%.
- Built **end-to-end API test suites** using Karate Framework across 12 APIs, establishing integration test coverage for critical service paths and reducing manual regression effort.

PROJECTS

• Stock Portfolio Management – Groww

GitHub : Jan 2025

Spring Boot · REST APIs · MySQL · GitHub · Maven · Docker · Postman · Jacoco · Kafka

- **Designed and engineered** 8 REST API endpoints to handle trade recording, portfolio retrieval, user, stock management, and price simulation, leveraging Spring Boot and MySQL for scalable backend services.
- Built **portfolio analytics capabilities** including total holdings, realized profit and loss, and performance tracking for individual investments.
- **Streamlined data ingestion workflows** by creating API-driven scripts and CSV-based stock import mechanisms.

• Workplace – Job Portal Web App

GitHub Jan 2024 - July 2024

React.js · Node.js · Express.js · MongoDB · Socket.io · Postman · Git

- **Developed job portal** enabling employers to manage job and applicants to discover and apply for opportunities.
- Implemented **real-time messaging** using Socket.io with chat latency below 100 ms and built a resume builder supporting creation and customization of resumes across 8 templates.

EDUCATION

• Motilal Nehru National Institute of Technology Allahabad

2021-2025

Bachelor of Technology Electronics and Communication Engineering

CPI: 8.45

• City Montessori School, Lucknow

2005-2020

Senior Secondary Education, Indian School Certificate

Percentage: 94%

CODING PROFILE

• **LeetCode** Top 3% | Solved 1000+ Question | Contest Rating- 1985 **Knight** leetcode.com/u/shrishrajgupta

• **CodeForces** Contest Rating - 1431 **Specialist** codeforces.com/profile/shrishraj

TECHNICAL SKILLS

AI / LLM	LangChain, LiteLLM, Supernemory, RAG, Prompt Engineering
Backend & Infra	Spring Boot, Node.js, Kafka, Redis, Microservices, Docker, Kubernetes
Languages & DB	Java, JavaScript, Python, C++, C, PostgreSQL, MongoDB
Core CS Fundamental	Data Structures Algorithms, OOP, Operating Systems, Computer Networks
Tools	Git, GitHub, IntelliJ IDEA, VS Code, Postman

POSITIONS OF RESPONSIBILITY

Member of Rotaract Club MNNIT Organization of blood donation campaign within campus