Rishabh Gupta

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EDUCATION

Stony Brook University   **Stony Brook, New York**
Master of Science in Computer Science   *Expected Graduation: Dec. 2027*
Relevant Coursework: System Security, Data Science, Advancements in Artificial Intelligence, Natural Language

LNM Institute of Information Technology   **Jaipur, India**
Bachelor of Science in Computer Science   *Aug. 2018 – July 2022*
Relevant Coursework: Computer Networks, Data Structures, Python Programming, Object Oriented Programming

TECHNICAL SKILLS

Primary: 4 years- Python, FastAPI, SQL, Cassandra, RAG, DSPy, LangChain, MCP, Git, REST APIs, React, Redux
Additional: 4 years- Kubernetes, Docker, Aws, Jenkins, LLD, Data Structures and Algorithms, Springboot, JavaScript
Practices: 4 years- Object Oriented Programming (OOPs), Agile, Effective communication

PROFESSIONAL EXPERIENCE

Rocket Software   **Hyderabad, India**
Software Engineer II- AI   *Sept. 2024 – Present*
- Developed metadata-aware query router for [SmartChat](#) a RAG based System using DSPy and automated SQL generation, improving answer quality by 84% over baseline semantic/hybrid retrieval on complex customer data.
- Implemented unified LLM and embedding inference layer abstracting multiple provider APIs (OpenAI, Anthropic, AWS Bedrock), reducing time to onboard new models and cutting documentation overhead.
- Built a centralized runtime config system with SSE-based pub-sub and Gunicorn SIGHUP reloads, enabling live config updates across services without Kubernetes pod restarts.
- Executed 200+ unit, integration, and functional test cases, elevating code coverage from 70% to 95% and improving system reliability.

Capgemini India   **Pune, India**
Software Developer   *Oct. 2022 – Sept.2024*
- Architected trie + priority queue for Data Catalog routing, slashed query latency 65% across 200k+ records.
- Devised C++ indexing microservice (gRPC to FastAPI), accelerated 15k docs/sec at 40ms p99 for hybrid search
- Delivered WCAG 2.1 catalog dashboard (ARIA, keyboard nav, NVDA tested) for accessible metadata browsing.

Capgemini India   **Pune, India**
Software Developer Intern – Data Governance   *March2022 – May 2022*
- Optimized Alation lineage service with tracemalloc profiling, cutting memory 35% via bounded caches and weakref cleanup for 100k+ assets.
- Scaled service to slash governance audit times 40%, accelerating compliance reporting across enterprise data.

PUBLICATIONS & RECOGNITIONS

Hackathons: Smart Scrum Master- [Most Innovative project Award](#) at RocketBuild 2025.   **Boston, MA**
- Automated Jira ticket creation from Microsoft Teams meetings using a custom MCP server and AI agent, achieving 90%+ accuracy and reducing manual backlog grooming effort by 70%.
- Boosted sprint planning efficiency by 40% through a Jira MCP AI agent that enabled seamless ticket creation, updates, and prioritization directly from meeting insights.
- Reduced sprint review preparation time by 50% by leveraging AI-driven analytics to deliver real-time insights on team velocity, burndown and blockers.