Rahul Gupta

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Professional Summary

Results-driven Software and AI Engineer pursuing dual Master's degrees in MCA and MSc in AI & ML at CHRIST University. Proven track record of designing and deploying high-performance, production-grade applications spanning full-stack architecture, computer vision, distributed data pipelines, and quantum computing workflows. Adept at leveraging modern tech stacks to build robust, scalable solutions and eager to bring strong technical execution and a passion for innovation to forward-thinking engineering teams.

Education

CHRIST (Deemed to be University) — Bengaluru
Master of Computer Applications (MCA) — June 2025 - April 2027
MSc in Artificial Intelligence & Machine Learning — June 2025 - April 2027

St. Xavier's College — Mumbai
BSc in Information Technology — June 2022 - April 2025

Experience

Autobeanz Technologies | Software & AI/ML Engineer Intern — April 2026 - May 2026

- Built computer vision models and automated ETL data pipelines for vehicle damage inspection and diagnostics.
- Engineered a LangChain and agentic ML-powered lead triaging system to classify and route high-priority customer inquiries automatically.

CMS Info Systems | Full Stack Developer Intern — May 2024 - October 2024

- Engineered WebRTC multi-peer video and real-time communication PoCs for enterprise IoT device integration.
- Developed responsive frontend dashboards in Angular.

Projects

ClearSight: Offline-First Vision Screening Platform — Source Code Link
Python, React.js, OpenCV, SQLite, Supabase

- Built an AI-powered vision screening web app utilizing touchless hand-gesture recognition and adaptive testing algorithms.
- Architected offline-first local SQLite storage with automated background cloud synchronization for remote deployments.

E-Commerce Customer 360 Data Pipeline — Source Code Link
Apache Kafka, PostgreSQL, Docker, Streamlit

- Designed a containerized, real-time event-streaming pipeline processing customer clickstream and order events via Kafka.
- Built analytical data models in PostgreSQL and an interactive BI dashboard to track retention, churn, and cohort metrics.

ASK (Analyse, Secure, Kill) – Incident Response Engine — Source Code Link
Python, DuckDB, NetworkX, Sigma YAML

- Developed an automated threat-hunting platform featuring log parsing, Sigma rule detection, and MITRE ATT&CK mapping.
- Implemented graph-based entity correlation with NetworkX and multi-factor risk scoring backed by DuckDB analytics.

SkySpy: Satellite Methane Sentinel — Source Code Link
FastAPI, React TypeScript, Leaflet, Supabase

- Engineered a full-stack geospatial monitoring platform to detect industrial methane anomalies across global coordinates.
- Built automated REST API ingestion workers and an interactive map interface displaying live emission severity metrics.

Certifications & Achievements

- **Qiskit Global Summer School 2026** – IBM Quantum — September 2026
- **Generative AI with Transformers & Deep Learning Specialization** – Coursera — August 2026
- **36-Hour National Hackathon Finalist** – Tata Centre for AI & ML, NIT Tiruchirappalli — August 2026
- **Advanced Data Structures and Algorithms in Python** – Infosys Springboard — April 2026
- **Engineering Production-Ready AI** – CHRIST University — September 2025

Skills & Interests

Programming Languages:	Python, Java, C++, C, JavaScript, TypeScript, Kotlin, Dart, SQL, Bash
Web & App Development:	React.js, Angular, Flutter, Node.js, Express.js, FastAPI, Streamlit, Tailwind CSS
AI, ML & Quantum:	PyTorch, OpenCV, MediaPipe, LangChain, LangGraph, Ollama, Qiskit
Databases & Streaming:	PostgreSQL, MySQL, MongoDB, Supabase, SQLite, DuckDB, Apache Kafka
Cloud, DevOps & QA:	AWS, Docker, Git, GitHub Actions, REST APIs, Selenium, JUnit 5, Linux CLI
Technical Interests:	Reading and writing technical articles, exploring and adopting open-source tools