

Rahul Sharma

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PROFILE

Technical Operations Associate | AI/ML | Backend Systems

Computer Science undergraduate with hands-on experience across technical operations, AI/ML, backend systems, data analysis, and workflow automation.

Built practical systems using Python, FastAPI, PostgreSQL, Redis, Streamlit, and modern ML frameworks, including LLM workflows, AI agents, computer vision, and data-driven applications. Experienced in customer operations, web research and data enrichment, and operational automation using Google Sheets, WATI, and Pabbly Connect.

WORK EXPERIENCE

Technical Operations Intern | Exly

July 2026-Present

- Managed day-to-day customer and platform operations, including offering creation, customer access, upgrades, and operational requests.
- Worked with Google Sheets, WATI, and Pabbly Connect to manage customer workflows and operational processes.
- Performed web research and data enrichment for 500+ traders, identifying and verifying their websites and social media profiles.
- Organized and maintained operational data while handling recurring customer and platform-related workflows.

TECHNICAL SKILLS

Programming & Data:

- Python
- Java
- Pandas
- NumPy
- Matplotlib
- Data Analysis
- Data Visualization

AI / ML

- Scikit-learn
- TensorFlow
- NLP / LLM Applications
- AI Agents
- Computer Vision
- Prompt Engineering
- Model Evaluation

Backend & Tools

- FastAPI
- REST APIs
- PostgreSQL
- Redis
- SQLAlchemy
- Celery
- Docker
- Git & GitHub
- React / Next.js
- TypeScript
- Streamlit
- Resend

Operations & Automation: Google Sheets • WATI • Pabbly Connect • Web Research • Data Enrichment • Workflow Automation

PROJECTS

MailMass | Email Marketing Platform | Next.js, FastAPI, PostgreSQL, Redis [Live Demo](#) | [GitHub](#)

- Built an open-source email marketing platform for managing contacts, templates, campaigns, scheduling, and analytics.
- Developed a FastAPI backend with PostgreSQL, SQLAlchemy, Redis, Celery, JWT authentication, and Resend integration.
- Implemented background processing and scheduled campaign workflows using Celery/Celery Beat.

URLiy | URL Shortener & Analytics Platform | React, FastAPI, PostgreSQL, Redis [Live Demo](#) | [GitHub](#)

- Built a full-stack URL shortening platform with authentication, protected operations, URL expiration, and click analytics
- Implemented Redis caching, rate limiting, collision checking, and database fallback mechanisms.
- Deployed separate frontend and backend services with interactive API documentation.

Thermal Infrared–Optical Super-Fusion Imagery | Python, Computer vision [Kaggle](#) | [GitHub](#)

- Developed a research prototype combining low-resolution thermal imagery with high-resolution optical guidance.
- Implemented feature extraction, attention-based fusion, and 4× super-resolution using a pixel-shuffle reconstruction pipeline.
- Explored perceptual enhancement while preserving thermal-image characteristics under practical imaging constraints

AI Agent-Based Job Assistant | LLMs, CrewAI, Gemini, Streamlit [GitHub](#)

- Built a multi-agent job-assistance application for job-description analysis, resume and cover-letter generation, and professional messaging.
- Integrated CrewAI, Google Gemini, and the USAJOBS API into an interactive Streamlit workflow.
- Designed separate agent workflows for job analysis, application material generation, and candidate communication.

ACHIEVEMENTS & CERTIFICATIONS

- Winner — Kronos Hackathon 2026
- 1st Place — Innovation Day Hackathon
- Top Performer — IIITM Gwalior Hacksagon 2025
- Machine Learning Specialization — Andrew Ng
- Kaggle Certifications — Python, Pandas, Data Visualization, Intro to Machine Learning, Intermediate Machine Learning

Education

Bachelor of Technology in Computer Science & Engineering | Expected Graduation: May 2027
Institute of Technology and Management, Gwalior