Rahul Rathore

+91 8452040385 | Thane, MH | rahul07052k@gmail.com | github.com/rahul98076 | linkedin.com/in/rahul98076 |
https://rahul98076.github.io/

EDUCATION

Xavier Institute of Engineering — Mumbai, MH
Bachelor's of Engieering, Computer Science — *Winter 2025*
- Relevant Coursework: Operating Systems, Computer Networks, Distributed Computing, Cryptography & System Security, DBMS, Software Engineering, Big Data Analytics.

WORK EXPERIENCE

IT & Operations Engineer — April 2024 — October 2025
Final Destination Undertakers — *Thane, MH*
- Automated manual data workflows using Python scripts to improve efficiency.
- Resolved hardware and network issues via root cause analysis, ensuring high system uptime.
- Managed local and cloud backup strategies to guarantee data integrity.

Computer Science Teacher — August 2023 — April 2024
Friends Academy ICSE School — *Mulund, MH*
- Facilitated hands-on Python training, focusing on applied coding and debugging techniques.

SKILLS

- **Cloud & DevOps:** AWS, GCP, CI/CD (GitHub Actions), Ansible, System Monitoring
- **Containerization:** Docker, Docker Compose, Kubernetes (k8s)
- **Operating Systems:** Linux (Debian, Ubuntu, Arch), Windows 10/11
- **Programming & Scripting:** Python, Bash, JavaScript, HTML/CSS
- **Frameworks:** Django, Flask, Pandas, NumPy
- **Databases & Tools:** MySQL, SQLite, Git, Gunicorn
- **Competencies:** IT Support, Root Cause Analysis, Network Security, Technical Communication

PROJECTS

Maintainer, ERP System for Local Business — November 2025 — Present
- Engineered a mobile-first ERP application using Django and HTMX, delivering a responsive, app-like user experience for kitchen operations without the overhead of a heavy client-side framework.
- Architected a complex PostgreSQL database schema to manage recursive product structures (Bill of Materials) for composite items like hampers, alongside seasonal inventory categorization.
- Designed a touch-optimized UI with Tailwind CSS, streamlining daily workflows such as order fulfillment (Pending to Delivered) and real-time inventory toggling.
- Orchestrated a secure, self-hosted deployment on a private Linux home server using Docker and Tailscale, ensuring restricted remote access for the business owners.

Maintainer, Containerized Home Lab on Linux Server — November 2025 — Present
- Administer a headless Ubuntu Server to simulate production environments for DevOps experimentation and system troubleshooting.
- Orchestrate containerized workflows using Docker and Docker Compose to stage and test custom applications.
- Automated system maintenance and database backups using Bash scripting and Cron jobs to ensure data persistence and minimize downtime.
- Optimized system resource allocation for multi-container environments, ensuring stability for memory-intensive applications on constrained hardware.

Maintainer, CI/CD Pipeline for a Full-Stack Application — October 2025
- Built and deployed a full-featured Django blog as a Docker container.
- Configured a production environment on a Linux VM with Gunicorn and WhiteNoise.
- Established a CI/CD pipeline using GitHub Actions to automate code quality checks (Flake8) and testing (Pytest).