Rishi Agarwal

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therishiagarwal.github.io

PROJECTS

• Self-Hosted Private Cloud Server

Oct. 2024 - Nov. 2024

Linux, Docker, Portmaster, DDNS, Nextcloud, Vaultwarden

- Designed and implemented a private NAS and backup solution using a spare laptop, Linux, and Docker.
- Configured dynamic DNS (Cloudflare DDNS tunnel), static IP, and a strong firewall (Portmaster) for secure remote access and server protection.
- Hosted services including Nextcloud and Vaultwarden for personal data management.
- Gained hands-on experience in Linux system administration, Docker containerization, networking, and hosting scalable services.

• Aegis Alert: Women's Safety SOS App

Sep. 2024

Flutter, Firebase, Custom AI Models, TensorFlow Lite

- Developed a real-time SOS mobile app featuring **gesture-based** (shake) and voice-activated distress detection.
- \circ Implemented real-time location tracking integrated with emergency services for automatic alerts.
- Integrated TensorFlow Lite models, achieving 95% distress detection accuracy, and real-time cloud services for alerts.

• URL Shortener: Spring Boot Backend Application

Feb. 2025

Java, Spring Boot, Spring Data JPA, MySQL, Apache Commons Lang

- Designed and implemented a RESTful URL shortening service using **Spring Boot**.
- Developed robust backend logic with **Spring Data JPA** and MySQL for persistent URL mapping.
- Utilized Apache Commons Lang to generate secure, random alphanumeric strings.
- Containerized the database using **Docker** and validated endpoints with **Postman**.

Publications

• Kumar, N., Agarwal, R., Gupta, P., Mishra, P., Kumar, Y., & Ram Sai, M. Y.

Ensemble learning-based VM migration prediction based on CPU usage.

In Proceedings of the IEEE 2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICN), 2024.

EDUCATION

• Bennett University (The Times of India Group)

Greater Noida, UP, India

B. Tech in Computer Science and Engineering with Specialization in Cloud Computing

Sep. 2022 - Present

SKILLS

- Languages: Java, C++, Python, MATLAB, SQL
- Cloud/DevOps: AWS Cloud, Google Cloud, Docker, Kubernetes, CI/CD (Jenkins)
- Tools: Linux, Git & GitHub
- Frameworks: Spring Boot, Django, Flutter
- Other: Machine Learning, Data Structures and Algorithms

CERTIFICATIONS

• Global AWS Certified Cloud Practitioner

• View all Certifications and Courses

[View Credential]

[Certifications Portfolio]

ACHIEVEMENTS AND COMMUNITY WORK

- Ranked #28 out of 400+ teams in the SmartBU Hackathon; selected to advance to the Smart India Hackathon 2024 (SIH'24).
- Spearheaded GCCP and Google Cloud Study Jams for **150**+ participants, showcasing expertise in orchestrating large-scale events and fostering collaboration among aspiring cloud professionals.