Rishi Agarwal

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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.
  - 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 Credential]
- View all Certifications and Courses [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.