



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**, media server, and backup solution using a **spare laptop**, **Ubuntu Server** OS, and **Docker**.
 - Configured dynamic DNS (Cloudflare **DDNS** tunnel), static IP, and a strong firewall (Portmaster) for secure remote access and server protection.
 - Hosted services like Nextcloud, Immich, Samba Share, and Vaultwarden, optimizing personal data storage and accessibility.
 - 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, Tensor-flow lite
 - Developed a real-time SOS mobile app using Flutter, TensorFlow Lite, and Firebase, focusing on women's safety and analytics.
 - Implemented **gesture-based** (shake) and voice-activated distress detection features, integrated with emergency services for automatic alerts.
 - Achieved **95% accuracy** in distress detection and successfully integrated cloud services for data storage and analysis.

Trendmia: Collaborative Project Sharing Platform (Team Project)

Mar 2024 – Apr 2024

- ~Django, Supabase, HTML, CSS, JavaScript
 - Developed using **Django** framework with **Supabase** for authentication and database.
 - Wrote the complete code for both the frontend and backend, ensuring seamless integration.
 - Enables users to **sign-up, log-in, create post** and **initiate chat** with other users for collaboration.
 - Features a **trending section to display trending projects** and an **AI tool to assess project uniqueness**.
 - Users can initiate chats for collaboration and mark projects as ongoing or completed.
 - Led the development team and coordinated with team members for AI/ML integration.

"Undupify" File Deduplication Application

Dec 2023

- C++ & Qt
 - Developed using **C++ & Qt** framework
 - Efficiently **identifies duplicate files** and lists all files with **similarity > 19.9%** in the specified folder/location.
 - Utilizes advanced **MD5 Hashing algorithm** for accurate duplicate detection.

EDUCATION

Bennett University (The Times of India Group)

Sep 2022 – present
Greater Noida, UP, India

B. Tech in Computer Science Engineering with specialization in Cloud Computing

SKILLS

- **Languages:** Java, Python, C++, MATLAB
- **Cloud Computing:** AWS Cloud, Google Cloud (GCP)
- **Tools:** Linux, Git & GitHub, Docker, Kubernetes
- **Framework:** Django, Flutter
- **Miscellaneous:** Figma, MySQL, Supabase, Machine Learning

CERTIFICATION

- Global AWS Certified Cloud Practitioner 

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).
- Organized GCCP and Google Cloud Study Jams, leading events for 150+ students. Developed skills in event management, team coordination, and public speaking.