Mohamed Aklamaash M. R

aklamaash78@gmail.com | +91 63692 02355 | linkedin.com/in/aklamaash | github.com/MohamedAklamaash | portfolio

Professional Summary

Software Engineering Intern with hands-on experience building and operating **production backend and distributed systems**. Strong foundations in **data structures, operating systems, databases, and distributed systems**, with practical experience in **Kubernetes, cloud infrastructure, message queues, and scalable APIs**.

Experience

Software Engineering Intern, Unbound Security (YC S24)   May 2025 – Dec 2025

- Migrated the core product from GCP to AWS, resulting in up to 20% cost reduction while maintaining performance and reliability.
- Revamped the billing system to support invoice-based billing along with per-usage policies.
- Enhanced DLP pipelines to improve data security increasing accuracy over 90%
- Improved analytics for AI usage governance, enabling better visibility, control, and compliance across AI systems.

Projects

SYNCSET-DB - Sensitive Content Detection Pipeline   GitHub Link

Python, PSQL, YAML
- Engineered a high-performance **database replication engine** that enables granular **partial table synchronization** through optimized batch processing and intelligent upsert strategies.
- Architected a robust state-tracking framework featuring **automated drift detection** and **crash-safe recovery** to maintain data consistency across distributed database instances.

SONIC_K8s - Distributed Kubernetes Transcoding Service   GitHub Link

Go, Kubernetes, RabbitMQ, Docker
- Architected a **fault-tolerant distributed system** for video-to-audio transcoding using **RabbitMQ** to decouple producers and workers.
- Implemented **autoscaling worker pods** based on queue load, reducing average processing latency by **40%** while optimizing infrastructure cost.
- Built an internal **SQL execution tool within Django Admin**, enabling engineers to safely run and analyze queries, improving debugging and data analysis efficiency.
- Designed the system to handle worker failures gracefully, ensuring reliable message processing and consistent throughput under load.

SMART_SCREENSHOT - Sensitive Content Detection Pipeline   GitHub Link

Python, OCR, Backend Pipelines
- Built a **data loss prevention system** to detect and mask sensitive information such as API keys, passwords, and confidential text in screenshots.
- Designed **batch-processing pipelines** to support high-volume ingestion while maintaining performance and reliability.

Skills

Languages	Python, Go, Java, TypeScript, C++
Libraries and Frameworks	Django, NestJS, Message Queues
Platform and Tools	Docker, Kubernetes, AWS, GCP, Nginx, Postgres

Education

PSG College of Technology   August 2022 – May 2027

M.Sc. (Integrated) Data Science   CGPA: 8.16/10