

Mohamed Aklamaash M. R

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Professional Summary

Software Engineering Intern with hands-on experience building and operating **production backend systems**. Strong foundations in **networks, 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

[LAUNCHPAD](#) - Self-Hosted Cloud Deployment Platform [GitHub Link](#)

Django, Terraform, AWS ECS/CodeBuild/ALB, RabbitMQ, Redis, Docker

- Built a multi-service control plane that orchestrates an **11-step deployment pipeline**, cloning GitHub repos, triggering **CodeBuild**, pushing images to **ECR**, and standing up **ECS Fargate** services behind an **ALB**, all within the user's **own AWS account**, ensuring zero vendor lock-in.
- Designed an **NGINX** sidecar with path-based ALB listener rules per application, enabling multiple services to share a single load balancer while handling path rewriting, health checks, and security group ingress rules automatically.

[SYNCSET-DB](#) - Database Replication Service [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.
- Designed a robust state-tracking framework featuring **automated drift detection** and **crash-safe recovery** to maintain data consistency across distributed database instances.

[PORTFOLIO GPT](#) - Multi-Agent RL Portfolio Management System [GitHub Link](#)

Python, FastAPI, Stable-Baselines3 (PPO), LangChain

- Designed a **PPO**-based reinforcement learning agent trained on historical price data across 28 assets (Indian equities, indices, commodities) with a custom scoring engine weighing market regime, sector preference, and volatility penalty enabling dynamic top-k asset selection that adapts allocations between bullish and bearish conditions.
- Built an end-to-end signal extraction pipeline ingesting real-time market data from external sources, computing regime, momentum, and volatility features per asset, and feeding structured signals into the RL environment with automated cron-based retraining to keep model weights current with evolving market conditions.

Skills

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

Education

PSG College of Technology	August 2022 – May 2027
M.Sc. (Integrated) Data Science	CGPA: 9.36/10