

Mohamed Aklamaash M.R

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SUMMARY

Backend-focused software engineer in the final year of an integrated M.Sc., with a year of production experience at a YC-backed startup where I ran a GCP-to-AWS migration and built its billing and DLP security pipelines. Distributed systems are the part I enjoy most, which is why I keep building infrastructure on my own time, like a self-hosted PaaS and a Go task queue. I work across Python, Go, C++, Java, and TypeScript, and pick up a new stack quickly. Graduating May 2027.

EXPERIENCE

Unbound Security (YC S24), Software Engineering Intern (Summer)

May 2026 – Jun 2026

Remote / Bengaluru, India

- Built secrets/DLP scanning into the enterprise platform with TruffleHog and tuned it to **97% recall** and **94% F1**, then ran a false-positive cleanup that cut alert noise for security teams.
- Tracked down a classifier field-name mismatch (path vs files vs paths) that was silently skipping policy checks, and closed the coverage gap.
- Shipped BYOC deployment on Amazon EKS with Helm and ArgoCD for GitOps, wired Authentik in for SSO, and instrumented services with Prometheus and Grafana.

Unbound Security (YC S24), Software Engineering Intern

May 2025 – Dec 2025

Remote / Bengaluru, India

- Migrated the core product off GCP onto AWS across a distributed microservices architecture, cutting infra cost by **up to 20%** with no hit to reliability or performance.
- Rebuilt the billing system for invoice-based, usage-metered pricing on a high-throughput service, and owned it end to end from design through production.
- Pushed the DLP detection pipelines past **90% classification accuracy**, and built AI-usage governance analytics covering every AI agent in the org.

PROJECTS

LaunchPad: Self-hosted cloud deployment platform (PaaS) *Python · Django · Terraform · AWS · Docker*



- A distributed control plane that runs an 11-step deploy pipeline in the user's own AWS account: it clones the repo, builds images with CodeBuild, pushes to ECR, and provisions ECS Fargate services behind an ALB via Terraform, with an NGINX sidecar doing path-based routing so many services share one load balancer.

Relay: Distributed job scheduler and task queue for Go *Go · Redis · Prometheus*



- A Redis-backed task queue with at-least-once delivery and visibility-timeout leases for crash recovery, plus delayed and cron scheduling, exponential-backoff retries with a dead-letter archive, weighted priority queues, per-task timeouts, remote cancellation, Prometheus metrics, and a management CLI.

SyncSet-DB: Distributed database replication service *Python · PostgreSQL · YAML*



- A replication engine for partial-table sync across distributed PostgreSQL instances using batched upserts, with drift detection and crash-safe recovery that keeps replicas consistent through failures.

CodeGraph: AI code-intelligence platform *Python · Knowledge Graphs · Embeddings*



- An AI knowledge-graph over large codebases that indexes both structure and meaning (embeddings), so developers can search and reason about code by how it's written and what it actually does.

TECHNICAL SKILLS

Languages: Python, C++, Java, Go, TypeScript, SQL, Bash

CS Fundamentals: Data structures & algorithms, Object-oriented design, System design, Operating systems, Linux/Unix, TCP/IP networking, Concurrency

Backend & Distributed Systems: REST APIs, Microservices, AWS, GCP, Kubernetes (EKS), Docker, Message queues (Kafka, RabbitMQ), NGINX, CI/CD, Git

Databases & Caching: PostgreSQL, MongoDB, Redis

EDUCATION

PSG College of Technology, Coimbatore, India

Aug 2022 – May 2027 (Expected)

M.Sc. (Integrated) Data Science · CGPA: 8.18 / 10

Relevant coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Distributed Computing, Machine Learning, Probability & Statistics