ASAM MOHAMED

Software Engineer

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 Mohamed Asam · </> HackerRank · LeetCode · 🌐 Portfolio

PROFESSIONAL SUMMARY

Software Engineer with 2 years of experience in backend development and cloud technologies. Proficient in building scalable backend services using Golang, Kotlin, and Python, with hands-on experience in React for frontend development. Strong background in microservices architecture, RESTful API development, algorithm design, and database solutions. Skilled in cloud platforms (GCP, AWS), containerization with Docker and Kubernetes, and CI/CD pipelines. Passionate about writing clean, maintainable code and delivering high-quality software solutions.

PROFESSIONAL EXPERIENCE

Associate Software Engineer   **May 2024 – Dec 2024**
PickMe   *Colombo, Sri Lanka*

- Developed backend microservices using Golang and Kotlin for high-performance payment systems
- Built QR payment integration features using Kotlin and Golang with RESTful APIs
- Designed and implemented Traveling Salesman algorithm for optimized driver pooling and route allocation
- Implemented concurrent processing using Golang goroutines for efficient server communication
- Worked on React-based frontend components for internal dashboards and user interfaces
- Designed and implemented ETL pipelines using Python to process data from Appsflyer and store in S3
- Worked with TiDB for horizontally scalable database solutions
- Created and maintained CI/CD pipelines using GitLab CI/CD and Jenkins
- Utilized Docker and Docker Compose for containerized application deployment

Intern – Django Developer   **Feb 2024 – May 2024**
Octobus BI   *Colombo, Sri Lanka*

- Utilized Git for code management and collaboration with team members
- Implemented user authentication and authorization features
- Collaborated with development team to design and implement RESTful APIs
- Gained experience on AWS Lambda for serverless deployment
- Used AWS instances to maintain services

KEY PROJECTS

QR Payment Integration @ PickMe   *Kotlin, Golang, REST APIs, Microservices*
Developed end-to-end QR payment system with backend services handling real-time transaction processing.

Driver Pooling Algorithm @ PickMe   *Golang, Algorithms, Optimization*
Implemented Traveling Salesman algorithm for efficient driver allocation and route optimization.

Internal Dashboard @ PickMe   *React, JavaScript, REST APIs*
Worked on React-based internal tools and dashboards for monitoring and analytics.

TiDB Backend Service @ PickMe   *Golang, TiDB, SQL, AWS EC2*
Developed Golang microservices for TiDB deployment addressing MySQL scalability bottlenecks with horizontal

scaling.

Cloud Resource Optimization using ML @ Octobus BI *Python, LSTM, Google Gemini, AWS*
Developed ML models for cloud resource prediction and cost optimization with accurate infrastructure forecasting.

Gen AI Gated Model Prediction @ Octobus BI *Python, Prompt Engineering, ReAct, LLM, ReactJS*
Built Gen AI layer using ReAct architecture to handle out-of-distribution predictions.

TECHNICAL SKILLS

Programming Languages: Golang, Kotlin, Python, JavaScript/TypeScript

Frontend Development: React, ReactJS, HTML, CSS, JavaScript

Backend Development: REST APIs, Microservices, Django, Goroutines

Databases: MySQL, TiDB (NewSQL), PostgreSQL

Cloud Platforms: Google Cloud Platform (GCP), AWS (EC2, Lambda, S3, CloudWatch)

Container & Orchestration: Docker, Docker Compose, Kubernetes, GKE, Cloud Run

CI/CD & DevOps: Jenkins, GitLab CI/CD, Git, Nexus Repository

Tools & Others: Kafka, Terraform, Shell Scripting, Grafana, Prometheus

EDUCATION

BSc (Hons) in Computer Science Engineering **2021 − 2025**
University of Ruhuna *GPA: 3.75 / 4.0*

CERTIFICATIONS

- **Kubernetes and Cloud Native Associate (KCNA)** – *Cloud Native Computing Foundation (CNCF)*
- **Full-Stack Developer with Django** – *Meta*
- **Deep Learning Specialization** – *DeepLearning.AI*
- **Software Engineering Role Certification** – *HackerRank*

AWARDS & ACHIEVEMENTS

- **1st Runner Up** – CodeRally 6.0 Coding Competition *Sep 2025*
- **2nd Runner Up** – Haxtreme 2.0 Coding Competition *Oct 2023*

REFERENCES

Mr. Chanaka Fernando
Principal Architect
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Associate Architect
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