Paranietharan Palasuntharam

Software Engineer

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Professional Summary

Software Engineer building production backend services in Go and Python at QLUB. Experienced with APIs, webhooks, PostgreSQL, Redis, and troubleshooting live systems on Kubernetes. Also build full-stack projects using React, Next.js, and TypeScript.

Work Experience

QLUB | Associate Software Engineer (Remote, Contract) Aug 2025 – Present

- Build and maintain Go and Python backend services for table ordering and bill settlement, working with APIs from 25+ POS and payment vendors.
- Develop REST, SOAP, and webhook flows for orders, menus, and payments, adding request validation, retries, and idempotent handling to avoid duplicate processing.
- Build PostgreSQL-backed services that map different POS data formats to a common internal format; added Redis caching for merchant settings and menu data, improving POS API response times by 50% during peak hours.
- Debug production issues across Kubernetes pods, databases, and third-party APIs using application logs and webhook payloads.

QLUB | Software Engineer Intern (On-site) Feb 2025 – Jul 2025

- Built Go and Python services to sync 10,000+ daily order, menu, and payment records between merchant POS systems and internal services.
- Created reusable data mapping packages and webhook handlers with input validation and PostgreSQL persistence; investigated failed syncs using logs, API calls, and SQL queries.

Technical Skills

Languages: Go, Python, TypeScript, JavaScript, Java, SQL
Backend: Gin, Chi, FastAPI, Spring Boot, REST and SOAP APIs, webhooks, microservices, SSE
Frontend: React, Next.js, Tailwind CSS
Data & Messaging: PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ
Cloud & Tools: AWS (EKS, RDS, ECR, ALB, SQS), Docker, Kubernetes, Helm, Terraform, GitHub Actions, Git

Selected Projects

PulseWatch – Uptime Monitoring Platform github.com/paranietharan/pulsewatch
Go, Chi, Next.js, TypeScript, PostgreSQL, RabbitMQ, AWS EKS, Terraform, Helm

- Built four Go services and a Next.js dashboard showing uptime status, latency charts, and incident history.
- Implemented a PostgreSQL scheduler using `FOR UPDATE SKIP LOCKED`, an outbox publisher with RabbitMQ confirms, and concurrent HTTP checks with DNS, TCP, and TLS timing.
- Added incident thresholds and protection against requests to private or loopback IPs; deployed on AWS EKS using Terraform and Helm.

CloudBin – Distributed Object Storage github.com/paranietharan/CloudBin
Go, PostgreSQL, Redis, Docker, GitHub Actions

- Built a multi-service file storage backend with an API gateway, authentication service, object API, and storage nodes.
- Implemented FNV-based file placement across primary and replica storage nodes, with synchronous replication, rollback on write failures, and replica fallback for reads.

Education

University of Moratuwa BSc (Hons) in Information Technology Expected 2027