



WISHWA PERERA

SOFTWARE ENGINEER

CONTACT

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SKILL HIGHLIGHTS

- Languages:** Golang | PHP | C | BASH
- Backend:** Microservices | Event driven architecture | Gorilla | Gin Framework | GORM
- Databases:** Spanner | MySQL | MSSQL | RocksDB | BadgerDB | Redis | PostgreSQL
- Testing & Quality:** Golangci-lint | testify | mockgen | Ory/dockertest | Apache JMeter | SonarQube | Insomnia
- Miscellaneous:** GRPC | Apache Kafka | Docker | GCP | Kubernetes | Terraform | Elastic Search | CircleCI | Swagger | KrakenD | Grafana | Prometheus | Twilio | Marketo | EMVQR | Athens | AVRO | Protobuff | GraphQL

EDUCATION

University of Moratuwa Sri Lanka 2013-2018
BSc Engineering(Hons) Electronics and Telecommunications engineering

Second class upper distinction
Overall GPA - 3.34/4.2

OPENSOURCE CONTRIBUTIONS

Tryfix : Member



- Kstream:** Golang kafka streams
- Schemaregistry:** go wrapper for confluent's kafka schema registry
- Krouter:** Asynchronous http router using Apache kafka

Saban:

Go, WSDL

- Go encoder library for WSDL payloads

worker-pool:

Go

- Job manager using pooled go routines

WORK EXPERIENCE



Software Engineer III - Backend

ELEVEN SPORTS

Amsterdam Netherlands

Jan 2023 - Current

- Design and implement scalable and highly available golang based microservices to support the customer platform and data team.
- Address technical debts and suggest/work on improvements.
- Refactor and revamp legacy services to improve performance and maintainability.
- Improve and implement application reporting, instrumentation and observability.
- Manage deployments and infrastructure, provide support for production issues.
- Contribute to internal shared libraries used across the organization.
- Guide junior developers (through code reviews, pair programming etc) and assist to expand knowledge base.

Featured projects:

- MDT events service**
A Restful microservice for managing events covered by the organization.
Golang, GRPC, Kafka, PostgreSQL, Spanner, CloudTrace, Prometheus, Graphana, k8s.
 - Remove dependency on streaming services provider for data storage and introduce a dedicated scalable storage.
 - Investigate and improve query performance to reduce load on database.
 - Refactor the code to reduce api latency and improve testability.
 - Improve the access control to data exposed by the api.
- MDT annotations consumer**
An asynchronous microservice for replicating real time data across organisations.
Golang, Pubsub, GRPC, CloudTrace, Prometheus, Graphana, GCP, k8s.
 - Automate data transformations, replication to reduce manual labor.
 - Implement from scratch adhering to hexagonal architecture to be horizontally scalable.
 - Ensure independent delivery across organizations.
 - Implement tracing, monitoring and alerting.



Software Engineer II - Backend

BEAT Research BV - Acquired by FreeNow

Amsterdam, Netherlands

Feb 2022 - Jan 2023

- Design and Implement golang based microservices to replace the monolithic php system.
- Feature development and improvements on the existing monolith for immediate business requirements.
- Improve and implement application instrumentation and observability.
- Deployment and production support on a rotational schedule basis.
- Contribute to internal shared libraries used across the organization.
- Ensure software quality by manual testing and implementing automated system tests.
- Guide junior developers and assist to expand knowledge base.

Featured projects:

- Greek FreeNow Migration.**
A Restful api for for automatically migrating drivers as a part of acquisition.
PHP, MySQL, Prometheus, Graphana, k8s, Loki, AWS.
 - Design the api backend on top of the BEAT monolith REST application
 - Implemented patterns for error logging, monitoring.
 - Implement unit/intergration tests and end to end system tests.
- VAMON**
An asynchronous golang microservice for tracking real time vehicle allocation.
Go, Apache Kafka, MySQL, Protobuff, Prometheus, Grafana, AWS, k8s.
 - Implement outbox pattern to ensure transactional guarantees between DB and kafka updates.
 - Improve unit/intergration tests.

ACCOMPLISHMENTS

- **Independent contractor** Golang Software Engineer at Infima technologies (Aug 2020 - Dec 2020)
- **Certified scrum master** by Scrum Alliance (2019-2021)
- **Winner**, SS12 Asia -"Code A Thon challenge" -Sri Lanka selection championship 2016
- **Winner**, SS12 Asia Regional Championships 2016 - Kumaraguru college of technology, coimbatore, india
- **Second runners up**, Future X Disrupt 3.0 Technoprenuer challenge
- **Peoples Choice Award** , Future X Disrupt 3.0 Technoprenuer
- **Research paper published**, on [Brailleband](#) on IEEE International Conference on Systems, Man and Cybernetics.
- **Finalist, SATIM Robotics challenge 2015**

REFERENCES

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WORK EXPERIENCE - CONTINUED



Senior Software Engineer - Backend

MY BUDGET

Colombo, Sri Lanka

Dec 2019 - Mar 2022

- Design and develop golang based event driven microservices to replace the Java based monolithic system.
- Automate manual business processes to improve efficiency and customer experience.
- Implement best practices for structuring code repositories following clean architecture and domain driven design concepts.
- Implement observability and monitoring for applications.
- Contribute to internal shared libraries and documentation of domain knowledge.
- Guide junior developers and assist to expand knowledge base.

Featured projects:

- **Budget timeline generator**

A Restful microservice for financial transaction analysis, planning and visualization.

Go, Apache Kafka, Kstream, Gin, Avro, Prometheus, Grafana, GCP, k8s.

- Implement from scratch to be highly available and horizontally scalable.
- Eliminate manual labor by automating the timeline generation process.

- **NE Messenger**

A Restful microservice for bidirectional client communication using sms and email.

Go, Apache Kafka, Kstream, Gin, Marketo, Twilio, Prometheus, Grafana, GCP, k8s.

- Automate pre-scheduled email campaigns, real time email/sms notifications on user actions.
- Trigger actions in the system based on client responses for sms and emails.



Software Engineer - Backend

PICKME

Colombo, Sri Lanka

Aug 2018 - Dec 2019

- Design and develop high throughput event driven microservices to replace the PHP based monolithic system.
- Worked as a member for two teams simultaneously, held the role of technical owner for the Driver Team.
- R&D on system improvements and implement accepted ideas in to production applications.
- Implement best practices for structuring code repositories following clean architecture and domain driven design concepts.
- Implement observability and monitoring for applications.
- Contribute to internal shared libraries and documentation of domain knowledge.

Featured projects:

- **PickMe Driver**

Main Restful backend for PickMe driver mobile applications.

Go, Apache Kafka, Kstream, Gin, MySQL, Prometheus, Grafana, GCP, k8s, JMeter.

- Revamped from kohana based monolith in to a golang event driven microservice.
- Improve load capacity and significantly reduce api latency .
- Significantly reduce application resource requirements.
- Implement instrumentation and observability tools for monitoring and debugging application.

- **PickMe Meter**

A Restful microservice for calculating dynamic fares for hires/deliveries.

Go, Apache Kafka, OSRM, Kstream, Gin, MySQL, Prometheus, Grafana, GCP, k8s, JMeter.

- Desinged from scratch as a scalable event driven microservice.
- Replaced the InApp legacy implementation.
- Eliminated the problem of dataloss in mobile application crashes.
- Reduced mobile application load enhancing user application experience.



Associate Software Engineer - Backend

PICKME

Colombo, Sri Lanka

Feb 2018 - Aug 2018



Intern Systems Engineer

VS INFORMATION SYSTEMS

Colombo, Sri Lanka

Aug 2016 - Jan 2017