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   Feb 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 performace and maintainability.
- Improve and implement application reporting, instrumentation and observability.
- Manage deployments and infrastructure, provide support for production issues.
- Contribute to internal shared libaries 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 scrach 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   Mar 2022 - Feb 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 libaries 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 gurantees 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

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 libaries 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   Aug 2018 - Dec 2019
Colombo, Sri Lanka

- 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 libaries 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 intrumentation 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   Feb 2018 - Aug 2018
Colombo, Sri Lanka

Intern Systems Engineer
VS INFORMATION SYSTEMS   Aug 2016 - Jan 2017
Colombo, Sri Lanka