

# SHEHAN ISHANKA

Colombo, Sri Lanka | +94 711347090 | [ishanka.shehan@gmail.com](mailto:ishanka.shehan@gmail.com)  
<https://www.linkedin.com/in/shehan-ishanka> | <https://shehanishanka.github.io>

## SUMMARY

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Skilled Software Engineer with a strong passion for learning and leveraging new technologies to create innovative applications with a primary focus on Backend Development, Big data, and Data Engineering. Committed to staying updated with the latest industry advancements and continuously expanding knowledge with a dedication to building robust and efficient software solutions to address evolving business needs.

## EDUCATION

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### UNIVERSITY OF MORATUWA

PG Dip in Computer Science  
Specialized in Data Science Engineering and Analytics

Sri Lanka  
Expected 2025

### UNIVERSITY OF MORATUWA

B.Sc. (Hons.) in Engineering  
Specialized in Electronic and Telecommunication Engineering  
GPA - 3.69/4.2 (2nd Class Upper) | Dean's List - Semesters 1, 2, 6, 7 and 8

Sri Lanka  
Nov 2014 - Dec 2018

### RAHULA COLLEGE

Primary and Secondary Education  
Island Rank - 36 in GCE(A/L) - 2013 with z-score of 2.5936 | Island Rank - 9 in GCE(O/L) - 2010

Matara, Sri Lanka  
2000 - 2013

## SKILLS

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**Programming Languages :** Python, Java, Scala

**Frameworks :** FastAPI (Python), Play Framework (Java), H2O Wave (Python)

**Big Data Technologies :** Apache Hadoop, Apache Spark, Apache HBase, Apache Hive, Apache Sqoop, MapReduce

**DevOps (Beginner Level) :** Docker, Kubernetes, Jenkins, Terraform

**General Languages :** English and Sinhala (Spoken and Written)

## WORK EXPERIENCE

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### Gapstars

#### Senior Software Engineer

Colombo, Sri Lanka  
Nov 2023 - Present

- Backend Development with FastAPI for [Urban Woods](#) Project under [Stekz](#)
- Intercom Chat & Ticketing System Integration
- Authentication & Authorization improvements
  - Role & Permission Management
  - Forgot Password Flow with Verification code
  - Alternative Log In with Verification code
- Telemetry System development to utility (Electricity, Water, etc.) Calculation with Celery, Timescale
  - Sensor Blueprint plan and Raw Sensor data ingestion
  - Timeseries Sensor Data Ingestion to Timescale with Celery
  - Periodic Aggregate Calculation
  - Endpoints to expose Aggregates
  - Integration to Admin Portal with Web Components

### H2O.ai

#### Software Engineer

Colombo, Sri Lanka  
Aug 2021 - Nov 2023

- [MLOps](#) (Machine Learning Operations) Application Development
  - Front-end application development in Python using [H2O Wave framework](#).
  - Refactoring tasks following OOP, Clean Architecture, and DDD principles.
  - Backend API call handling using AsyncIo.
  - Unit and end-to-end (E2E) test development.
  - Docker image building.
  - CI/CD pipeline development with Jenkins.

- ML Model Monitoring (Ongoing)
  - Monitoring stats data calculation and ingestion to Apache Druid using Python
- ML Model Deployment to Azure
  - Python GUI Application developed with [H2O Wave framework](#) to deploy [H2O Driverless AI](#) models in Azure

**PickMe (Digital Mobility Solutions Lanka (PVT) Ltd)**  
**Software Engineer**

Colombo, Sri Lanka  
 Aug 2019 - Aug 2021

- ETL (Extract, Transform, Load) pipeline design and implementation
  - Batch ingestion pipelines using Apache Sqoop, Apache Hive, and Azkaban.
  - Real-time ingestion pipelines using Apache Spark streaming, and Azkaban.
  - Data processing with MapReduce, Apache Hive UDFs, and Apache Spark.
- Business use case analysis, logic, and algorithm implementation to address data needs
  - Data ingestion to Apache Hive and Apache HBase with Apache Sqoop.
  - Data processing using Apache Hive and Apache Spark.
  - Data publishing to Apache Kafka using Apache Spark streaming.
  - Designing and building Rest APIs using the Play Framework.
- Business use cases
  - Personalized and Trending Batch Recommendation Systems for Food Recommendations.
  - KPIs for Merchant Analytics.
  - Near Real-Time Process for Driver Fatigue Check.
  - Near Real-Time Process for driver location and status identification.
- Assistance in Promotion Analysis data science project, including evaluating promo performance through statistical hypothesis tests.
- Mentoring skills to provide guidance and support to newcomers in the field.

**PickMe (Digital Mobility Solutions Lanka (PVT) Ltd)**  
**Associate Software Engineer**

Colombo, Sri Lanka  
 Feb 2019 - Aug 2019

- Data Science project experience
  - Clustering techniques for location optimization.
  - Demand analysis for driver and merchant placement.

**Synopsys Inc**  
**Intern-Technical Engineering**

Colombo, Sri Lanka  
 Jun 2017 - Dec 2017

- Test cases creation, testing, and debugging for SPYGLASS Analyzer.
- Bash script development for utility tasks.

**PROFESSIONAL QUALIFICATIONS**

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Scala & Functional Programming for Beginners | Rock the JVM - Udemy  
 Advanced Scala and Functional Programming | Rock the JVM - Udemy  
 Neural Networks and Deep Learning - Coursera

**ACHIEVEMENTS**

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- 1st place in School Category at IESL Robo Games 2014.
- 6th place in CodeExpertz All Island Programming Competition organized by IEEE University of Moratuwa student branch in 2014.
- Participant in SLIIT RoboFest 2015 in University Category.
- Finalist in IESL Robo Games 2016 in University Category.