# Lahiru Senevirathne *Software Engineer*

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📍 Melbourne, Australia     ⊙ https://github.com/LahiruSen

in www.linkedin.com/in/lahirusenevirathna     ●● https://medium.com/@lahiru.16

## Profile

Passionate and dedicated Senior Software Engineer with a robust background in Computer Science and Engineering, demonstrating a 4-year track record of excellence in full-stack development. Proficient in Java, Spring Boot, Apache Beam, and React. Recognized for clear and concise communication, adept at translating intricate technical concepts. Proven collaborative team player with a demonstrated ability to thrive in agile environments including Scrum ceremonies. Renowned for timely delivery and a strong sense of responsibility, ensuring successful project outcomes.

## Skills

**Programming Languages**
Java, JavaScript, Python, SQL

**Databases**
PostgreSQL, MySQL, IBM Db2

**Cloud Platforms**
AWS, Google Pub/Sub

**Frameworks**
Spring Boot, React.js, Apache Beam, Node.Js, Express.Js, Keras, JUnit 5

**Tools**
Git, IntelliJ IDEA, Visual Studio Code, DBeaver, Confluent Kafka, Swagger, Datadog, Jira, Maven, Gradle, Atlassian's suite

## Professional Experience

2022/08 – present
Colombo, Sri Lanka

**Senior Software Engineer**
*Sysco Labs Technologies (Private) Limited [Affiliated with Sysco Corporation.]* ⌤

- **Appointment Update Tool:** Led the development of a pivotal front end UI feature for the Appointment Update Tool in React within the Inventory Management System. Effectively contributed to enhancing scheduling functionalities, ensuring seamless management of door appointments.
- **ERP-TMS Interface:** Demonstrated leadership by leading a team in the modernization of interfaces between a legacy ERP system and the Transport Management System (TMS). Spearheaded the development of an advanced data pipeline using Apache Beam and Confluent Kafka, connecting the TMS-exposed GCP Pub/Sub to the ERP DB2 database. The implementation of these data pipelines resulted in an 80% enhancement in overall appointment scheduling effectiveness, showcasing the successful integration of Apache Beam and Confluent Kafka into critical business processes.
- **Inventory Tracking Application:** Implemented a data pipeline to introduce the un-snooze functionality, triggered by generated purchase orders, within an Inventory Tracking Application. This initiative was a vital component of the Service Level Insights application within the Inventory Management System project. The system facilitated proactive decision-making and automated the creation of purchase orders, mitigating inventory depletion risks and optimizing overall operational efficiency for the company.
- **Technologies:** Java, Apache Beam, React, Redux, AWS KDA, IBM Db2, Confluent Kafka, Google Pub/Sub, PostgreSQL, ES6, Jest

2021/02 – 2022/08
Colombo, Sri Lanka

**Software Engineer**
*Sysco Labs Technologies (Private) Limited [Affiliated with Sysco Corporation.]* ⌤

- **Inventory Management Application:** Played a key role in the development of a centralized replenishment model with REST API, leveraging Java, the Spring Boot framework, and Talend ETL. The API facilitates CRUD operations on purchase orders and seamlessly integrates with a rule engine, a Spring Boot application built on the Akka framework. The rule engine handles diverse business logic, including pricing, validations, and application of freight rates to purchase orders. Additionally, contributed to the development of a custom business rules library, ensuring efficient sharing of business logic across multiple jobs within the engine application. Further, I implemented a robust integration testing and unit testing strategy achieving an 80% line coverage for enhanced code quality.
- **Enhanced High Availability for ERP System:** Orchestrated the uplift of a legacy ERP system's hosting infrastructure, fortifying integration points with mission-critical applications. Implemented the Scale-Out Performance and Availability Clusters feature in the Micro Focus Enterprise Server, deploying on an AWS EC2 instances cluster. Spearheaded DevOps initiatives, employing Jenkins for seamless deployments and orchestrating infrastructure with Terraform scripts to optimize operational efficiency.
- **Technologies:** Spring Boot, Python, PostgreSQL, MySQL DBMS, Micro Focus Enterprise Server, AWS, Data Dog, Swagger, Terraform

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| 2019/06 – 2019/12<br>Colombo, Sri Lanka | **Software Engineering Intern**<br>*Virtusa (Private) Limited* ⊡ |

- Contributed to full-stack web development and NLP projects. Developed a News Classification System to identify NER tags and predict sentiment for fraudulent transaction detection. Enhanced productivity and excellence in the SDLC by contributing to a Project Management Dashboard for the developer environment.
- **Technologies:** Python, Keras, NLTK, Spring Framework, Electron, Elasticsearch, React, Node.js, MongoDB, TypeScript, JSON, Selenium.

## Education

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| 2016/08 – 2021/05<br>Sri Lanka | **BSc. Engineering (Hons) in Computer Science and Engineering**<br>*University of Moratuwa* ⊡<br>CGPA of 3.74 - First-Class honours ⊡<br>Included in Dean's List for Semesters 4, 5, and 8 |
| 2012/06 – 2015/09<br>Sri Lanka | **G.C.E Advanced Level Examination in Physical Science Stream**<br>*Royal College, Colombo* 07 ⊡<br>Mathematics: A, Chemistry: A, Physics: A ⊡<br>Z-Score 2.1019 |

## Certificates

| | |
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| **AWS Certified Solutions Architect - Associate** ⊡<br>Amazon Web Services | **Modern React with Redux [2024 Update]** ⊡<br>Udemy |
| **Natural Language Processing in TensorFlow** ⊡<br>Coursera(Deeplearning.ai) | **Deep Learning Specialization** ⊡<br>Coursera(Deeplearning.ai) |
| **Neural Networks and Deep Learning** ⊡<br>Coursera (DeepLearning.ai) | **Certificate in Business Accounting** ⊡<br>Charted Institute of Management Accountants [CIMA] |

## Publications

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| 2020/07 | **Sentiment Analysis of Sinhala News Comments Using Sentence-State LSTM Networks** ⊡<br>*Moratuwa Engineering Research Conference (MERCON) 2020* |

| 2020/11 | **Sinhala Sentiment Lexicon Generation Using Word Similarity** ⧉ |
|---|---|
| | *2020 international conference on ICT for emerging region (ICTer)* |
| 2020/11 | **Sentiment Analysis for Sinhala Language using Deep Learning Techniques** ⧉ |
| | *ACM Transactions on Asian and Low-Resource Language Information Processing* |

## Other Projects

| 2024/02 – present | **Product Store: NodeJs** ⧉ |
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| | • Developed a feature-rich e-commerce store application using Node.js, Express.js, and EJS for server-side rendering, adhering to MVC architecture with RESTful API integration. |
| | • The application supports dynamic routing and connects to a MySQL database via the Sequelize ORM. It includes robust functionalities such as user authentication (customer and admin roles), product management by admins, and a shopping cart with checkout for customers. |
| 2019/12 – 2020/12 | **Sentiment Analysis Application for Sinhala Language** ⧉ |
| | • Enhanced the accuracy of sentiment analysis for Sinhala language using state-of-the-art deep learning techniques and neural word embedding models, surpassing previous recorded accuracy levels. |
| | • Built an API using a serverless architecture on AWS. |
| | • **Technologies:** Python, Tensorflow, Keras, AWS, Angular. |
| 2020/05 – 2020/07 | **Search Engine for Sinhala Songs Lyrics** |
| | • Information Retrieval System using advanced indexing and querying techniques, Deployed on AWS using a serverless architecture. |
| | • **Technologies:** Elasticsearch, JavaScript, HTML, AWS, PHP |
| 2017/08 – 2018/01 | **Java Object Oriented Game** |
| | • A simple game application developed using OOP (Object-oriented principles), and multi-threading. |
| | • **Technologies:** Java. |

## Awards

| 2021/06 | **SPARK - BT Merch Quarterly Hackathon** ⧉ |
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| | • Popular Choice Winner |
| | • Daily demand forecasting based on predictive machine learning models |
| 2020 | **DataStrom 1.0** ⧉ |
| | • Octave and University of Moratuwa Rotaract club - Finalist |
| 2020 | **Google Hash Code** |
| | Rank 6th in Sri Lanka |

## Organizations

| 2019/03 – present Sri Lanka | **The Institution of Engineers Sri Lanka [IESL]** ⧉ |
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| | *Associate Member* |
| | • Apex Body for Professional Engineers in Sri Lanka |
| | • Membership No: AM-30242 |
| 2018/10 – present | **The Institute of Electrical and Electronics Engineers [IEEE]** ⧉ |
| | *Student Member* |
| | • The professional home for the engineering and technology community worldwide. |
| | • Membership No: 95172474 |

## References

**Dishan Metihakwala**, *Solutions Architect,* Accenture UK, London.
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**Dr. Surangika Ranathunga**, *Senior Lecturer,* Massey University, Palmerston North, New Zealand.
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