Nalinka Heshan
Software Engineer

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Professional Summary

Results-driven Senior Software Engineer with 5+ years of experience building scalable backend systems and cloud-native applications in fintech, healthcare, and IoT domains. Proven track record in leading critical modules, optimizing performance, and delivering high-impact solutions using Java, Node.js, Angular, and AWS. Passionate about innovation, cross-functional collaboration, and driving global digital transformation.

Technical Skills

Programming Languages	**:** Node.js, Java, JavaScript
Frameworks	**:** Spring Boot, Angular, Play
Databases	**:** PostgreSQL, Oracle, MongoDB, MySQL
Tools & Technologies	**:** Kafka, Docker, Jenkins, RESTful APIs, Hibernate, Maven, Git
Cloud Platforms	**:** AWS, Red Hat OpenShift
Other	**:** Agile, Unit Testing, System Design, Data Structures, Algorithms, IoT

Work Experience

Software Engineer
Cloud Solutions International | July 2023 – Present

- Led the core module of the product while working onsite in Saudi Arabia, resolving production issues and delivering client-focused solutions, ensuring **99.9%** system uptime.
- Redesigned billing and inventory workflows, reducing invoice failure rates to **0.1%**.
- Optimized frontend modules, reducing loading time by **40%**.
- Built an automation tool that improved QA testing efficiency by **50%**.
- Contributed to hospital product development by implementing complex features and resolving intricate issues.
- **Technologies:** Node.js, Angular, Java, Kafka, PostgreSQL, Oracle, Spring Boot, Jenkins, Docker, Kubernetes

Senior Software Engineer
Qbitum Solution (Pvt) Ltd | Oct 2022 – July 2023

- Designed a scalable architecture for an AI-powered energy monitoring system, enabling real-time data ingestion and anomaly detection.
- Engineered a cloud-based pipeline on AWS, reducing data processing time by **25%**.
- Migrated a bank product to IBM servers using Red Hat OpenShift, implementing monitoring systems and load testing.
- Upgraded and stabilized a digital banking system, improving compatibility with modern technologies.
- **Technologies:** Kafka, Red Hat OpenShift, AWS IoT, Spring Boot, Docker, Kubernetes, Prometheus, Grafana

Software Engineer
Zilingo Sri Lanka | March 2020 – Sep 2022

- Developed core back-end applications, ensuring safe feature releases and service upgrades.
- Contributed to analytics and reporting systems, improving data accuracy by **15%**.
- Participated in a major architectural change, enhancing system scalability and performance.
- **Technologies:** Play Framework (Java), MongoDB, Druid, Kafka, Jenkins, Flink

Internship - Telecommunication Engineer
Huawei Technologies Lanka (PVT) Ltd

- Assisted in server configuration, troubleshooting, and data analysis, gaining foundational exposure to networking principles and operational workflows relevant to DevOps practices.

Education

B.Sc. Engineering (Hons.) in Electronic and Telecommunication Engineering (Computer Science – related)
University of Moratuwa | Graduated: 2020

- Second Class Lower Division

Projects

AI-Powered LEGO Sorting System
- Engineered an AI-driven LEGO sorting system using computer vision and convolutional neural networks (CNNs).
- **Technologies:** Python, TensorFlow, OpenCV, Machine Learning

Electronic Toll Collection System (Final Year Project) | 2019-2020
- Designed and developed a **Wi-Fi-based automatic toll collection system** enabling users to pay toll fees via a mobile application at vehicle speeds exceeding **100 km/h**.
- Implemented real-time payment processing and seamless integration with toll infrastructure.
- **Technologies:** Android, Symfony, JavaScript, Python, IoT

References

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