Heshan Karunaratne

Software Engineer

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Summary

Highly motivated Full Stack Developer with over 5 years of experience delivering creative technical solutions across web applications. Proven ability to design and build scalable, reliable software that meets tight deadlines. Possesses strong expertise in Amazon Web Services.

Work Experience

Associate Tech Lead Oct 2022 - Mar 2024

Mitra Innovation

Watch On Nature

- Took the responsibility of supervising the architectural design and development of the project.
- Authored the Architecture Document, including architectural goals, trade-offs, processes, and logical diagrams.
- Streamlined CI/CD process for multiple teams in Bitbucket.
- Designed and developed an admin landing page using Next.js and React Leaflet.

Technology Stack: Next.js, React Leaflets, PostgreSQL, Tailwind CSS, Bitbucket, REST API, AWS EKS, Docker

TallElf

- Implemented JavaFX SceneBuilder for User Interface development and Java for back-end services.
- Successfully resolved 75% software glitches, showcasing my strong troubleshooting skills.

Technology Stack: Java, JavaFX SceneBuilder

Senior Software Engineer

Nov 2021 - Sep 2022

Mitra Innovation (Outsourced to Sysco LABS)

Merchandising Modernization (Sysco LABS)

- Using Talend Data Integration Tool, designed 'Prod Order Verification' and deployed to AWS Elastic Container Service via GoCD pipeline, resulting in a 70% reduction in manual data verification efforts.
- Improved application monitoring by developing a Kibana Dashboard that combines the above tool with ElasticSearch.
- Carried out **performance testing** to ensure optimal software performance.
- Applied Postgres Change Data Capture(CDC) via AWS Managed Streaming for Kafka for real-time data pipelines.
- Migrated Apache Beam pipelines from Kinesis to Kafka, optimized data transfer, and deployed on AWS Kinesis Data Analytics.
- Maintained 80% unit test coverage and resolved all SonarQube issues throughout the project.

Technology Stack: Java, SpringBoot, React.js, Talend Data Integration Tool, GoCD pipeline, Kibana Dashboard, ElasticSearch, DataDog, PostgreSQL, CDC, AWS MSK, AWS S3, AWS KDA, AWS ECS, AWS EC2, AWS CloudWatch, AWS Parameter Store, AWS IAM, Apache Beam, Kinesis, Kafka, SonarQube, REST API, Terraform, Junit, JIRA, Confluence, GitHub

Senior Software Engineer

Axiata Digital Labs

Genie Stocks

- Orchestrated extensively with React JS and focused on state management using Redux for a stock trading application.
- Developed over 10 RESTful APIs, integrated third-party APIs, and expertly directed PostgreSQL database.
- · Demonstrated a strong understanding of Object-Relational Mapping (ORM) principles and leveraged Hibernate to streamline database interactions.
- Enforced Server-Sent Events to enable real-time updates and continuous data flow to the front end.

Technology Stack: Java, SpringBoot, React.js, SonarQube, Redux, REST API, Jasper Report, PostgreSQL, Hibernate, Server-Sent-Events, Kafka, Jenkins, JIRA, Microservices, Spring Security

LesiPay/eZLoan

- Effectively used **Docker Compose** to define and execute **multi-container** applications.
- Leveraged payment gateways to optimize financial processes, with a deep understanding of various Fintech solutions.

Apr 2020 - Oct 2021

- Successfully utilized circuit breaker patterns like resilience4j to handle failures and prevent cascading failures, thus ensuring the robustness of microservices in distributed systems.
- Leveraged Pentaho Data Integration to create a daily job generating PostgreSQL materialized view for 20 million customer records.
- Used WSO2 Enterprise Service Bus (ESB) to convert between XML and JSON formats while working seamlessly.

Technology Stack: Java, SpringBoot, SonarQube, REST API, PostgreSQL, WSO2 ESB, Pentaho Data Integration Tool, Docker, Microservices

Software Engineer Apr 2019 - Mar 2020

Axiata Digital Labs

One Wallet

- Have an understanding of digital wallets and mobile banking applications.
- Introduced Unit tests and achieved a test coverage of over 90% for new code changes.

Technology Stack: Java, SpringBoot, MSSQL

SAQ-Contract Initiation

- As the Technical Lead on the project, I ensured the timely delivery of tasks and presented our progress in sprint show-and-tell sessions.
- Built the application using ProcessMaker's integration with JavaScript, jQuery, and PHP.
- Collaborated on creating Entity-Relationship (ER) diagram and overseeing data persistence in MySQL database.
- Provided essential assistance to the team and facilitated with deploying production processes.

Technology Stack: ProcessMaker, JavaScript, JQuery, PHP, MySQL, JIRA

Trainee Software Engineer

Aug 2018 - Mar 2019

Dialog Axiata PLC

DMS vs SAP Reconciliation

• I developed the automation of SAP processes using Python, streamlining and enhancing operational efficiency.

Technology Stack: Python, ActiveMQ

Taxation

- Created a Java Spring Boot microservices-based application to automate the Taxation process.
- Developed a custom email component using Free-marker templates to differentiate between email types based on their subject lines.
- Incorporated **ActiveMQ** to ensure **effortless communication** with other applications.
- Played an active role in scrum ceremonies, contributing to project progression and team collaboration following agile practices.

Technology Stack: Java, SpringBoot, ActiveMQ, Java, Free-marker Templates, Microservices

Certification

- AWS Certified Developer Associate (2023)
- AWS Certified Cloud Practitioner (2023)
- Google Cloud Certified Professional Cloud Architect (2021)
- AWS Certified Solutions Architect Associate (2020)
- Processmaker Certified Advanced Architect (2019)
- RPA Developer (2019)

Education

Bachelor of Science (Hons) in Applied Sciences (Computer Science)

University of Sri Jayewardenepura, 2015 - 2018

• Second Class Honours (Upper Division)

Non Related Referees

Available on request