Thushan Jayasundara

Senior Software Engineer

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PROFILE

Senior Software Engineer with 6+ years of experience designing and modernising backend systems across fintech, airline retail, and education platforms. Strong expertise in distributed systems, cloud-native architectures, and production-grade microservices. Focused on building scalable, resilient systems and progressing toward a software architecture role.

Professional Objective

Focused on writing clean, precise, and maintainable Java code, with strong attention to design quality, performance, and long-term scalability. I continuously refine my engineering approach by learning from Java Champions such as **Vlad Mihalcea** and **Eugen Paraschiv**, applying proven best practices and deep technical insights to real-world systems while progressing toward advanced expertise in Java and software architecture.

TECHNICAL AND SOFT SKILLS

Programming and Frameworks: JAVA 11/17/21 · Spring Ecosystem · AOP · OOP · React.js · Next.js

Architectural Styles & Principles:
Microservices · Monolithic · Design Patterns · 12-Factors · DRY · KISS · YAGNI · SOLID Principal · Clean Architecture · Hexagonal Architecture

Databases & Persistence: JPA · Hibernate · DB2 · Oracle DB · MySQL · MongoDB · Redis · PostgreSQL · Cassandra · DynamoDB

Testing & Quality Assurance: Unit Testing · Integration Testing · Load Testing

API & Communication: REST · SOAP · XML · JSON · GraphQL

Monitoring & Logging: ELK-Stack · Prometheus · Zipkin · Grafana

Version Control: Git · GitHub · GitLab · SVN/CVS

Project Management: SDLC · Scrum · JIRA

Cloud & DevOps: AWS · Docker · IBM WebSphere · GitHub Actions · Jenkins

Frontend Exposure: React.js · Next.js

Soft Skills:
Collaboration · Problem-Solving · Cross-Cultural Communication · Consistency and Discipline · Proactivity · Attention to Detail · Time Management

WORK EXPERIENCE

Pearson Lanka   Colombo, SL.
Senior Software Engineer   05/2024 - 04/2025

Pearson is the world's leading learning company, with over 30,000 employees in more than 70 countries working to help people of all ages to make measurable progress in their lives through learning.

- Modernised **9+ core microservices** through migration from **Spring Boot 2.x to 3.x,** leveraging new features to accelerate system performance by **10%,** surpassing initial performance forecasts.
- Utilized **AWS CloudWatch** to **trace and resolve root-cause issues in production**, while mentoring junior developers on observability and issue resolution.
- Orchestrated the migration of **Amazon Aurora MySQL** from versions **2.x to 3.x (MySQL 5.7 to 8.0) across 15+ microservices** via **CloudFormation** across 15+ microservices, achieving **zero downtime** and full backward compatibility in just under 6 days.
- Enhanced data integrity and streamlined inter-service communication by **modifying the Autobahn Schema and SDK across 10+ microservices,** which facilitated seamless real-time data exchange.
- Led rapid deployment of a critical **auth library update across 8+ microservices in 5 days,** minimizing security risks.
- Leveraged the Snyk vulnerability scanning tool to identify and **remediate project dependency vulnerabilities,** achieving an 80% reduction in security risks.

WORK EXPERIENCE

AirRetailer Technology LLC
Dubai, UAE.
Software Engineer
08/2022 - 03/2024

Air-Retailer is a new generation **IATA NDC** based Corporate Booking Tool and Expense Management System for small, medium and large size Corporate, Travel Management Companies and Airlines that deal with Corporate.

- Engineered an **asynchronous dedicated interceptor to log all requests and responses** in the AWS S3 service, achieving a 40% reduction in response times across **25+ interconnected microservices**.
- Developed and integrated the **Singapore Airlines service with the AR platform** by leveraging the **Amadeus Altéa NDC Standard (18.1)** and implementing an **Aggregator pattern via SOAP integration.**
- Accelerated the integration of **British Airways and American Airlines** with Sabre GDS by 25% through strategic developer collaboration.
- Developed a shared utility module with Feign Client and ControllerAdvicer **reducing duplicate code by 60%** and **accelerating development by 30%.**
- Led the adoption of advanced **software design principles**, **architecture patterns**, and **12-Factor** methodology, **reducing code review cycles by 40%** and **enhancing application performance by 25%.**
- Implemented standardized auditing across **25+ microservices using Spring Auditing with Hibernate,** resulting in a **10%** increase in API response latency.

People's Bank / Silverlake Axis Sdn. Bhd./ JITRCS
Colombo, SL.
Software Engineer (L1)
11/2021 - 08/2022

People's Bank the second-largest commercial bank in Sri Lanka, has a network of 739 local branches and service centers, an asset base of LKR 1.873 trillion (2019), and over 14 million customers.

- Overhauled debugging processes within the core banking platform, **fixing 20+ critical software defects**, enhancing system uptime for **14.5 million users,** and ensuring compliance with banking regulations.
- Maintained systems by **actively monitoring performance** and swiftly resolving software defects, ensuring seamless functionality and a high-quality user experience.
- **Deployed updates, fixes, and releases** to optimize product performance and ensure seamless operation.
- Managed complex data retrieval queries and customized **scriptlets within Jasper Reports,** improving the efficiency and accuracy of **report generation by 40%.**

Techlead International (Pvt) Ltd
Colombo, SL.
Associate Software Engineer
01/2020 - 11/2021

Techlead International (PVT) Ltd is a company dedicated to the advancement of Telecommunications solutions.

- Developed the user module incorporating **OAuth2 and Single Sign-On (SSO),** seamlessly integrating it with o**ver 8+ microservices to enhance authentication and security.**
- Enhanced the notification service by integrating **Firebase to deliver push notifications** to customers, boosting system transparency by 20%.

OpenArc System Management (Pvt) Ltd
Colombo, SL.
Software Developer
05/2019 - 01/2020

OpenArc is an ISO 9001:2000 and CMMI level 3 quality certified leading software house specializing in Banking, Finance, Securities & ERP software solutions.

- Integrate system and improve data flow efficiency by **30%** by developing APIs and database triggers at Mercantile Investments and Finance PLC.

EDUCATION

Metropolia University of Applied Sciences
Helsinki, Finland
MSc in IT (Software Engineering) │ GPA: **3.55** / 4.0
04/2025 - 11/2026

University of Gloucestershire
Colombo, Sri Lanka
B.Sc. Computing
02/2021 - 03/2022

- CAT's: 120 | Second Class Honours 1st Division

IDM Colombo Campus
Colombo, Sri Lanka
OTHM UK Diploma in Information Technology
02/2021 - 01/2023

Sri Lanka Institute of Advanced Technological Education.
Gampaha, Sri Lanka
Higher National Diploma in Information Technology.
05/2017 - 11/2019

City and Guilds of London Institute
Gampaha, Sri Lanka
Diploma in Engineering - Electrical & Electronic Technology
10/2014 - 10/2015