Nambukara Gamage Nipun Thilakshan

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PROFILE SUMMARY

As an accomplished software engineer with a distinguished track record spanning over **5 years** in the **IT industry**, I specialize in **full-stack development**. My expertise encompasses **rapid learning**, **effective problem-solving**, and **proficient programming skills**. As a self-motivated **team player**, I excel in guiding projects from requirement gathering to product delivery, with meticulous **time planning**. I have a strong passion for leveraging the latest technologies to provide innovative solutions.

EDUCATION

University of Moratuwa   Colombo, Sri Lanka
M.Sc in Computer Science Specializing in Software Architecture   *Jan 2021 – Jul 2023*
- GPA: 3.95/4.20 | First class

University of Moratuwa   Colombo, Sri Lanka
B.Sc Engineering(Hons) Specialized in Electronic & Telecommunication Engineering   *Nov 2014 – Dec 2018*
- GPA: 3.45/4.20 | Second class upper division | Dean's list in semester 6 & 7

WORK EXPERIENCE

Sysco LABS Technologies (Pvt) Ltd   Colombo, Sri Lanka
Associate Technical Lead   *Nov 2022 – Present*
- Developed an effective **e-commerce** system for world's largest food marketing and distribution network, **Sysco** which operates more than 320 distribution facilities servicing over **0.65M** customers.
- Improved content management and personalization by introducing a Content Management System **(CMS)**, reducing the maintaining cost of the legacy system by more than **20%** and boosting the overall productivity in **50%**.
- Integrated product **recommendations** while working as a full-stack developer and equipped sales representatives with visualizations that resulted in a **46%** gain in **customer-placed orders**.
- Implemented **automated testing** for delivered features through component **self-certification**, ensuring minimum production defects.
- Identified production incidents early through **proactive monitoring** and resolved quickly while maintaining **99.8%** up time.Collaborated with cross-functional teams, applying **AWS, Kubernetes, Docker**, and **CI/CD practices** to achieve scalable and secure deployments.
- Engineered the evolution of **Sysco Shop**, a high-traffic **e-commerce platform**, by implementing **micro front-ends, EDA (Kafka), and GraphQL** to enhance user experiences.
- Leveraged **distributed tracing and monitoring** tools to identify and resolve performance bottlenecks, resulting in a improvement in system response time and a **20% reduction** in **error rates**.
- **Optimized SQL queries, garbage collection**, and introduced a **distributed caching** mechanism to enhance system efficiency and reduce response times.

Axiata Digital Labs (Pvt) Ltd   Colombo, Sri Lanka
Associate Technical Lead/Senior Software Engineer   *May 2021 – Nov 2022*
- Engaged in pivotal projects involving **microservices** design and development, enhancing customer functionality within telecommunication core systems.
- Migrated legacy applications to the cloud to optimize performance and resource management, resulting in a more than **30%** reduction in **operational costs**.
- Implemented **Test Driven Development (TDD)** with comprehensive unit testing, achieving **80%** code coverage, and integrated **SonarQube** and **Jenkins** pipelines for continuous code quality monitoring.
- Implemented an **API gateway** to streamline testing and improve system performance, achieving a **2x reduction** in latency and increased throughput for the REST APIs.
- Implemented a **task queue** system within the integration microservice to efficiently handle concurrent calls, improving processing **efficiency** by **50%** and reducing **response time** by **20%**.

- Managed high-quality, timely task delivery in the Charging Solutions project and adeptly navigated **AWS** cloud instances via the **DTE microservice platform**, aligning with engineering best practices and **CMMI** processes.
- Led the architecture and implementation of scalable web applications while debugging core telecom systems to ensure optimal performance. Leveraged a comprehensive technology stack including **Spring Boot, Java, React.js, Kubernetes, Docker, WSO2 APIM, and Huawei OCS 5.6**.

WSO2 Lanka (Pvt) Ltd
Colombo, Sri Lanka
Software Engineer
Jan 2021 – May 2021

- Researched and involved in identity and access management feature development in **Identity server 5.12**. Debugged and identified fixes for recorded issues, developing the patch meeting tight deadlines while assuring the quality of the process.
- Took ownership of complex technical problems that customers were facing and drove them to resolution through troubleshooting and debugging, both individually and by effectively collaborating with the product team through escalations.

Axiata Digital Labs (Pvt) Ltd
Colombo, Sri Lanka
Software Engineer
Feb 2019 – Dec 2020

- Designed and implemented a solution that facilitates **unified orchestration** interface for creating digital business solutions on top of telco core/BSS systems, resulting reduction in **infrastructure costs** by **15%** and boost **operational efficiency** by **40%**.
- Employed an **event-driven architecture** to enable asynchronous communication between microservices, resulting in a **40%** reduction in system latency for real-time data processing.
- Engaged in the development of the **Axonect** microservice platform, a suite of **360 market-ready solutions** known for their flexibility, scalability, and user-friendliness. Notably, achieved a remarkable **45% efficiency** improvement in migrating cloud-native apps and a notable **32% enhancement** in migrating cloud-based apps.
- Developed a **self-care** mobile application which gives users complete control of over 200 services. Leveraged technologies including **Grafana, Kubernetes, Docker, Firebase, JWT, and Huawei OCS 5.6**.
- Led the successful migration from **Huawei OCS 3.3** to **5.6**, an initiative to enable 5G ready environment and enhance the customer experience for future generations. The project won the title of Dialog Axiata's **best IT project** and service enhancement of the year **2019-2020.**

Effective Solutions (Pvt) Ltd
Colombo, Sri Lanka
Software Engineer – Intern
Jun 2017 – Dec 2017

- Designed an **IBP** (Intelligence Preparation of the Battlefield) system for Defense Services

Technical Skills

Programming: Java, Node.js, JavaScript, Python, HTML/CSS

Frameworks: SpringBoot, ReactJS, Express

Technologies and tools: Github, Sonar, Jenkins, Veracode, Concourse, Argo Workflows, Docker, Kubernetes, Nexus, WSO2 APIM,WSO2 IS, Optimizely, OTMM, Apigee, Vault, Datadog, JIRA, Confluence, Kafka, Okta, Contentstack, Apollo Client, VS Code, InteliJ IDEA, Figma

Databases: MySQL, MongoDB, Neo4j, PostgreSQL, Redis

Cloud platforms: GCP, AWS(EC2, RDS, EMR, Redshift, S3, Lambda)

Big data analytics: EMR, Hadoop, Spark, Redshift

Software architectural patterns: Microservices, REST, SOAP, Micro Frontends, GraphQL, Event-Driven Architecture

Business intelligence: Power BI, Redash, Tealium

Professional Qualifications

- Associate Engineer - Engineering Council, Sri Lanka
- Associate Member (Membership no: AM-24173) - Institution of Engineers, Sri Lanka
- WSO2 Certified Identity Server Developer - V5
- Training completion - Huawei OCS 5.6 Convergent Billing System Operation & Maintenance by Huawei University, China