

Nadith Premaratne

Lead Software Engineer (Java/Kotlin)

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Summary

- IT professional with **8+ years of experience** developing product-based company solutions, and customized IT software solutions for **world-renowned clients** such as Disney, London Stock Exchange, NETS, Visa, and Google.
- **Dream Team Award** and **Vanguard Award**, recognized for **engineering excellence** and **key contributions** to the **Google Fiber Project**.
- Graduated from the Faculty of Engineering, University of Peradeniya, specialized in **Computer Engineering (B.Sc. Eng. Hons)** with **First-class honors**.
- Has in-depth knowledge and experience in the **Real-Time payment** and **also banking & financial domains**.
- Experienced in **Server-Side Development** with **Java/Kotlin** and **Spring-based** enterprise applications and services.
- **Extensive knowledge** in **Spring eco-system** including spring-web/web-flux, spring-data, spring-security, AOP, and spring-cloud.
- Extensive knowledge in developing **Distributed Systems, Microservices, and SOA-based** solutions.
- **AI/ML Engineering**: Currently exploring and developing projects using the **LangChain framework**, leveraging cutting-edge **AI/ML engineering concepts** for intelligent application development.
- Hand-on experience in **AWS cloud-based designs**, CI/CD process.
- Hands-on experience in **Linux, Oracle, and Web frameworks** like **Angular**.

Work Experience

Lead Software Engineer

Google (via eTouch-Virtusa), Singapore : 2022 Mar - Present

Highlights & Responsibilities

- Lead Singapore BE team in transforming **Google Fiber's** legacy architecture into a scalable, flexible microservices framework.
- Design and develop clean, efficient, maintainable code to implement new features, enhancements, and bug fixes for Google Fiber's customer-facing applications, backend systems, and network management tools.
- Conduct in-depth code reviews in Java and Kotlin, ensuring code quality and adherence to best practices.
- Work closely with cross-functional teams and other stakeholders to understand requirements, propose solutions, and deliver high-quality software products.
- Provide guidance, mentorship, and technical leadership to junior & new engineers to help them grow their skills and contribute effectively to the Google Fiber project.
- Recognized for technical leadership, problem-solving skills, and product lifecycle management.
- Participate in agile development processes such as sprint planning, daily stand-ups, and retrospective meetings to ensure efficient collaboration and delivery of software increments.

Utilized Tools & Technologies: Java, Spring Framework, Kotlin, Angular, Harness CI/CD, Github, Contentful, Open API, gRPCs, REST, JIRA, Guice/Stubby Framework, Google Apps & Tools framework, Boq Microservices

Education

Bachelor of Science (Hons) in Engineering

- Specialized in **Computer Engineering**
- **GPA: 3.75/4.00** (first-class honours)
- **University of Peradeniya, Sri Lanka**

Key Technical Skills

- **Java/Kotlin Related :**
 - JSE / JEE (8,11,17,21+) Spring MVC SpringBoot
 - JAX-WS JAX-RS JAXB
 - JPA Hibernate
 - JUnit Mockito TestNG
 - Selenium
- **Other Programming languages:**
 - Kotlin Python C/C++
 - LangChain Framework
- **Database Systems :**
 - Google BigQuery
 - Oracle RDBMS MySQL SQLite
 - MongoDB
- **In-Memory Distributed Caching :**
 - Apache Ignite Hazelcast
- **Messaging APIs :**
 - Solace Kafka IBM-MQ
- **Build & Deployment Tools :**
 - Ansible Jenkins GitLab
 - Harness Maven Gradle
 - Rapid (Google)
- **Other Development Tools :**
 - AWS Apache Tomcat
 - Unix Windows
 - Docker K8s OpenShift
 - JIRA Git BitBucket
 - IntelliJ Eclipse
 - Cider(Google)
- **Front-End Development :**
 - Angular HTML/JavaScript

Senior Software Engineer

Visa (via Wipro-U3InfoTech), Singapore : 2021 Jul - 2022 Feb

Highlights & Responsibilities

- Demonstrated a strong understanding of the [Visa Checkout](#) architecture, ensuring efficient integration and alignment with overall system design.
- Played a key role in redesigning the legacy system architecture to accommodate a **mobile-as-an-identity approach**, transitioning from the traditional email-based model.
- Actively contributed to the **integration of new Identity Management APIs into the Visa Checkout platform**, enhancing functionality and scalability.
- Gained hands-on experience in developing reactive, asynchronous, and non-blocking REST APIs, and effectively integrating them with other microservices and systems to ensure seamless communication.
- Proficient in performing comprehensive code reviews and enforcing code quality controls, version control best practices, as well as adhering to strict security and performance standards.
- Gained substantial experience in implementing and managing CI/CD pipelines using tools such as Git, Ansible, and Jenkins to automate deployment processes and improve operational efficiency.

Utilized Tools & Technologies: JSE, JEE, Spring, JPA, Hibernate, REST, JUnit, JSON, XML, Oracle, Hadoop, IntelliJIDEA, Git, BitBucket, Jenkins, Rally, OpenShift, Ansible

Software Consultant

NETS Group(BCSIS, BCS), Singapore : 2019 Sep - 2021 Jun

Highlights & Responsibilities

- A key resource for the application architecture, development of [PromptPay - PayNow Linkage Project](#) which enables instant Bank transactions between Thailand and Singapore via Mobile Number.
- Experience in Code reviews, Code Quality controls, Version controls, security and performance standards.
- Performing Technical studies and proof of concept (POC) on building low latency real time payment system.
- Extensive experience in developing, testing, and deployment of the above projects from the scratch.
- Have an end-to-end understanding of the architecture of the [FAST System](#) and [PayNow](#).
- Transactions flow optimizations & designed frameworks - Distributed Caching and Query Optimizations, Saga Distributed Transactions, Service Discovery & Service Registry, Finite State Automation in services to handle operational Status gracefully & automatically.
- Hand-on experience in developing High-Availability Clustering applications (Active-Active, Active-Passive) also supporting Consistency, Partitioning concepts.
- Experienced in DevOps, CI/CD, bitbucket, DevOps Tools (Ansible, Jenkins, Maven, Sonarqube, Docker).
- Knowledge of key security subjects (SSL/TLS, PKI, Certificates, HSM).
- A key resource for the Industry testing phase where stakeholders from Thailand and Singapore are partaking.

Utilized Tools & Technologies: JSE, JEE, Solace, Kafka, IBM MQ, Apache Ignite, Microservices, SOA, Spring Boot, Spring MVC, JPA, Hibernate, REST, JUnit, JSON,XML, AWS, Oracle, JIRA, Git, Ansible, Docker, Jenkins, Gradle, IntelliJIDEA

Certifications

- **ICT Assessment Certification for Software Developer**
Offered by NUS-ISS - [Credentials](#)
- **AWS Cloud Technical Essentials**
Offered by AWS - [Credentials](#)
- **Introduction to Containers w/ Docker, Kubernetes & OpenShift**
Offered by IBM - [Credentials](#)

Language Proficiency

- English (Full Working Proficiency)
- Sinhala (Native)

Personal Info

Name In Full	Arachchi Appuhamilage Nadith Malinda Premaratne
Date of Birth	1992.09.24
Nationality	Sri Lankan
Marital Status	Married

Achievements & Other Activities

- **Vanguard Award 2025** for demonstrating initiative, leadership, and commitment to excellence
- **Dream Team Award 2024** for exemplary performance and valuable contributions to the Google Fiber project
- **A technical content creator** at www.nenathambara.org
- Captain of the under-13 and 16 school cricket team
- Member of the DRAMSOC Drama Society, University of Peradeniya

Software Engineer

CodeGen International, Sri Lanka : 2017 Nov - 2019 Jul

Highlights & Responsibilities

- More than 1.5 years of experience in designing and developing **TravelBox(TM)**, the flagship software solution of **CodeGen** for world-renowned clients like **Disney**.
- Hands-on experience with large-scale complex back-end systems (such as SQL DBs, Rule Management Systems, REST APIs, and SoA).
- Hands-on experience in optimizing in-memory caches to support low latency REST API calls.
- Experience in developing SOAP and REST backend solutions and Swing desktop applications.
- Participated in client calls and discussions with said client pertaining to new software integrations to **TravelBox(TM)**.
- Engaged in solution design and development to ensure the successful completion of all deliverable items.
- Carried out developer testing, debugging, and correction of errors to ensure the seamless performance of the application.
- Provided support to production systems where it is required to troubleshoot, analyze and deliver hot-fixes.
- Being part of the team that managed the launch of **TravelBox(TM)**.
- Experience with continuous integration through GIT, Maven, and Jenkins.

Utilized Tools & Technologies: JSE, JEE, JPA, Microservices, Spring Boot, Hibernate, REST, SOAP, JAX-WS, JAX-RS, JAXB, JUnit, Log4j, Apache Velocity, JSON, HTML5, CSS, JDBC, Oracle PL/SQL, Apache Tomcat, Docker, AWS, JIRA, SVN, GIT, Jenkins, Gitlab CICD, Maven, IBM MQ, RabbitMQ, IntelliJIDEA

Software Engineering Intern

London Stock Exchange Group, Sri Lanka : 2016 Nov - 2017 Apr

Highlights & Responsibilities

- Designed and developed a load-balancing tool to distribute transactions (clearing updates, market data/reference data updates, and periodic events) among risk calculation processes to ensure equal workload distribution.
- Contributed to the development of an enterprise software solution for an electronic trading platform.
- Conducted bug fixing and issue resolution.
- Utilized Jira for efficient project management and task tracking.
- Performed Oracle database query optimization and integrated test suites for improved performance.

Utilized Tools & Technologies: Java (JSE/JEE), JPA, Hibernate, JUnit, Log4j, JSON, JDBC, Oracle PL/SQL, Git, Maven, IntelliJ IDEA, SQLite, C++, Windows, Linux, Visual Studio, Bamboo, JIRA

References

1. Victor Shi - Software Engineering Manager (Engineering Division)

- Google (Mountain View California, USA)
- victorshi@google.com
- **Relationship:** Directly managed by Victor during his tenure at Google Fiber.

2. Saptarshi Mandal - Senior Director (Engineering Division)

- Visa worldwide Pte Ltd (Singapore)
- sapmanda@visa.com
- **Relationship:** Directly managed by Saptarshi during my tenure at Visa.

3. Vijay Kadamathi - Vice President of Technology

- OCBC Bank (Singapore)
- vijaykumarkadamathi@ocbc.com
- **Relationship:** Directly managed by Vijay during my tenure at NETS.

4. Dilesha Fernando - Business Architect Lead

- London Stock Exchange (UK)
- Dillesha.fernando@lseg.com
- **Relationship:** Directly managed by Dilesha during my Internship at MilleniumIT (LSEG Group).