IMETH GAMAGE

Software Engineering Graduate | Java Backend Development
Dehiwala, Sri Lanka | imethlithmalgamage2@gmail.com
LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Software Engineering graduate (BEng (Hons), First Class, University of Westminster through IIT, 2026) with 12 months of industry experience as a Software Engineering Intern at MillenniumIT ESP, building Java back-end modules and REST APIs on relational databases within an Agile team. Applies object-oriented design, layered architecture, testing and debugging in day-to-day development, with project work in multithreaded Java, PostgreSQL-backed systems and CI pipelines.

EDUCATION

BEng (Hons) Software Engineering, First Class Honours Jan 2022 – Jun 2026
University of Westminster (UK), delivered by Informatics Institute of Technology (IIT), Colombo | Average 75%+

Foundation Course
Informatics Institute of Technology (IIT), Colombo

G.C.E. Ordinary Level, Ananda College | 8 A's and 1 B 2020 – 2022

TECHNICAL SKILLS

Languages: Java, SQL, TypeScript, JavaScript, Python
Backend & APIs: Spring Boot, REST APIs / web services, Node.js, Express.js, FastAPI
Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis
Engineering Practices: Object-oriented programming, data structures & algorithms, layered architecture, repository pattern, multithreading & concurrency, SDLC
Testing & Quality: Unit, functional and automated (CI) testing; debugging; peer code reviews
Tools & DevOps: Git, GitHub, Bitbucket, GitHub Actions (CI/CD), Docker, AWS (AI & cloud fundamentals)
Ways of Working: Agile/Scrum (sprint planning, stand-ups), requirements analysis, technical documentation
Front-End: React.js, Next.js, Electron, HTML5, CSS3

PROFESSIONAL EXPERIENCE

Pre-Sales Engineer 2026 – Present
Effective Solutions (Pvt) Ltd, Colombo, Sri Lanka

- Develop a client desktop application with TypeScript and Electron, contributing to its design and implementation alongside pre-sales duties.
- Lead client meetings to gather functional and technical requirements, and turn business workflows into clear software specifications.
- Assess technical feasibility with developers and management, and contribute to architecture and solution-design discussions for web applications, ERP-style systems, workflow automation and AI-based solutions.
- Prepare technical documentation, solution proposals and project-scope materials.

Software Engineering Intern Jun 2024 – Jun 2025
MillenniumIT ESP, Colombo 03, Sri Lanka

- Built and shipped features across two enterprise applications, developing multiple modules with a Java back end and JavaScript front end using object-oriented design.
- Designed and implemented Java REST API / web-service endpoints using a layered architecture (entity, repository, service), keeping data access separate from business logic for maintainability.
- Worked through the full SDLC on relational-database-backed software, from requirements and design to development, testing, debugging and deployment.
- Carried out manual and functional testing to find and resolve defects before release, and took part in peer code reviews.
- Contributed to an Agile team through sprint planning, and supported deployment and system integration in a live enterprise environment.

PROJECTS

Concurrent Processing Systems 2024 – 2025
Academic project | Java, multithreading, concurrency control

- Built multithreaded Java simulations handling 5,000 to 100,000+ concurrent submissions, using synchronisation and shared-resource management to keep them thread-safe.
- Evaluated each simulation for throughput, reliability, and safety and liveness properties.

AYATI Patient Management System 2024 – 2025

Java, *JavaScript*, *PostgreSQL*, *Docker*

- Implemented patient-record management features in Java and JavaScript on PostgreSQL as one of a 4-member team building a system for the AYATI Centre, Faculty of Medicine, University of Kelaniya.
- Containerised services with Docker for repeatable deployment.

SkillPulse AI – Labour Market Intelligence Platform 2026 – Present

Python, *FastAPI*, *PostgreSQL*, *Redis*, *Docker*, *LangChain/LangGraph*, *Qdrant/ChromaDB*, *React/Next.js*, *GitHub Actions*

- Designing a modular FastAPI and PostgreSQL back end with Dockerised, layered services so the API, business logic and data access can be tested independently.
- Configured GitHub Actions CI/CD to run automated tests on every commit; implementing Redis caching to reduce redundant API calls and latency.
- Building a Retrieval-Augmented Generation (RAG) pipeline with LangChain/LangGraph and vector databases to ground LLM responses in labour-market data.

AI-Based Multi-Label Lung Disease Detection System 2025 – 2026

Python, *PyTorch*, *DenseNet121*, *FastAPI*, *React.js*, *SQLite*

- Trained a DenseNet121 transfer-learning model to classify coexisting lung diseases from chest X-rays, reaching a macro AUC of 0.7957 and raising sample-wise F1 from 0.4568 to 0.4837.
- Served the model through a FastAPI back end with a React.js interface for real-time analysis.

CERTIFICATIONS

- AWS Certified AI Practitioner – Amazon Web Services (2026)
- Professional Certificate in Machine Learning, Level 02 – Informatics Institute of Technology
- Building Safe AI Applications with Azure Content Safety and OpenAI – Microsoft
- LinkedIn Learning: Full-Stack JavaScript Development (MongoDB, Node and React); React.js Essential Training; Level Up: Python; Using Git with Visual Studio Code

LEADERSHIP & ACTIVITIES

- Group Leader for multiple academic software projects, Informatics Institute of Technology (2022 – 2026)
- Captain, IIT Table Tennis Team (2024); Captain, Ananda College U19 Table Tennis Team (2021); All-Island U17 and U16 Table Tennis Champion (2021)