

M.S.M. FATHIMA SHAMEEHA

Software Engineer | Full Stack & AI/ML Development

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Rajagiriya, Sri Lanka

SUMMARY

Software Engineering (Hons) graduate from the Open University of Sri Lanka with hands-on experience building enterprise web applications and AI-powered systems. Directed a 4-member intern team delivering production modules for a university-wide student portal in an Agile/Scrum environment, and led a 5-member final-year team through end-to-end development of an AI system combining deep learning, blockchain, and a multilingual mobile PWA. Trilingual (English, Sinhala, Tamil) communicator with a track record of technical ownership from architecture to deployment.

TECHNICAL SKILLS

Languages: Python, C#, Java, JavaScript, PHP, SQL

Web & Frameworks: ASP.NET Core MVC (.NET 10), React (PWA), FastAPI, REST APIs, Bootstrap 5, HTML5, CSS3

AI / ML: DistilBERT fine-tuning, FAISS, scikit-learn (TF-IDF, SVC), EfficientNetV2, DenseNet201, Grad-CAM (XAI)

Databases & ORM: SQL Server, PostgreSQL, MySQL, MongoDB, Entity Framework Core

Tools & Practices: Git, GitHub Actions (CI/CD), Docker, Clean Architecture, Agile/Scrum, iText7, Figma

EXPERIENCE

Software Engineering Intern — Team Leader | IT Division, The Open University of Sri Lanka Dec 2025 – Jun 2026

- Directed a 4-member Agile intern team to build and ship the MyOUSL Student Portal, an ASP.NET Core MVC (.NET 10) production system serving thousands of OUSL students.
- Delivered 4 modules end-to-end: Exam Registration (eligibility logic, iText7 PDF forms), My Program (credit calculation), Course Progress (grade/Z-score calculator), and Results (multi-join aggregation, GPV logic, marksheet PDFs).
- Implemented Clean Architecture with EF Core and SQL Server; served as integration lead, managing pull requests and resolving DbContext migration conflicts across 3 branches.
- Configured GitHub Actions CI/CD workflows for automated build and deployment validation.

Data Entry Operator | Webdelico (Pvt) Ltd Jun 2022 – Aug 2024

- Processed ~15,000 records with 99.8% accuracy; performed data cleanup, error correction, and supported analysis tasks.

PROJECTS

NeuroSight — AI Brain Tumour Detection & Patient Management | Team Leader, 5-member FYP team Jan 2025 – Jun 2026

- Led the team that developed WaveFusionNet, an EfficientNetV2 + DenseNet201 ensemble achieving 98.69% accuracy with dual-path Grad-CAM explainability for MRI tumour classification.
- Built a trilingual patient mobile PWA (React, i18next) with 210 education sections across English, Sinhala, and Tamil, plus a multilingual AI chatbot (fine-tuned DistilBERT, FAISS vector search, TF-IDF/SVC fallback, emergency keyword detection) served via a RESTful FastAPI microservice.
- Coordinated delivery of tamper-proof medical records — doctor-confirmed results anchored on Ethereum (Sepolia) and IPFS by the team — as project lead.
- Authored the SRS, all UML/ER diagrams, progress reports, and the final presentation; coordinated all supervisor communications.

Earlier projects: Intelligent Study Planner — AI-assisted scheduler (Python, Linear Regression) • Globetrotter — Android tourism app (Java, Firebase) • SMARTLIB (team lead) • Pearl of the Indian Ocean — tourism site

EDUCATION

Bachelor of Software Engineering (Hons) | The Open University of Sri Lanka 2021 – 2026

GCE Advanced Level — Biological Science | P/ President's Science College 2016 – 2018

PUBLICATIONS

Shameeha, M.S.M.F. & Siyad, N.M. (2025). "Detecting Underwater Macroplastic Pollution: A Review on AI-Based Computer Vision Methods and Their Relevance to Sri Lanka's Marine Ecosystem." *2nd International Conference on Plastics, Innovations, and Environmental Sustainability (ICPIES 2025)*.

CERTIFICATIONS, LEADERSHIP & LANGUAGES

Certifications: Full Stack Development (University of Moratuwa) • Google Python Crash Course (Coursera) • SLASSCOM Future Career Bridge & Professional Skills • ZTM Academy Full-Stack Web Development • SoloLearn: Python, Java, SQL

Leadership & Activities: Treasurer, Curious'18 (2022–2023) • Treasurer, FBMV Welfare Society • SLASSCOM Future Career Bridge Bootcamp (2023) • Member, IT Union | Languages: English (Professional) • Sinhala (Native) • Tamil (Native)