

ISIRA EDIRISINGHE

Associate Software Engineer | Full-Stack Developer

+94 71 629 5665 ✉ isiraedirisinghe22@gmail.com 🌐 isira edirisinghe 🌐 isira edirisinghe

PROFESSIONAL SUMMARY

Full-stack engineer with 3 years of production experience building enterprise systems in **Java (Spring Boot)** and **Angular (TypeScript)**. Shipped GDPR-compliant microservice features, cut QA overhead by 45% through API test automation, and surfaced security vulnerabilities via OWASP ZAP and JMeter within a dedicated stabilisation squad. Comfortable owning backend design decisions and frontend delivery across cross-functional Agile teams. Currently completing a BSc (Hons) Computer Science at IIT, University of Westminster (expected 2025).

WORK EXPERIENCE

Associate Software Engineer

Jun 2024 – Jun 2026

Codegen International, Colombo

- Engineered full-stack **microservice features** across a Java/Spring Boot REST API backend and Angular/TypeScript frontend for the Unified Demo platform, implementing **GDPR-compliant** data flows (consent capture, field-level masking) and passing all compliance reviews with zero violations.
- Operated within a dedicated **6-person stabilisation squad** (Senior Architect, Senior SE, 2 QA Leads, BA) in a two-team product delivery structure, resolving high-priority demo and test-cycle defects under tight release windows.
- Gained production exposure to **Docker** and **Kubernetes** container orchestration and **Oracle SQL** query optimisation in a containerised enterprise environment.
- Designed and deployed a **REST API regression suite** (Postman, WebStorm HttpClient) covering critical business endpoints, reducing manual QA overhead by **45%** and enabling same-day regression feedback for the engineering team.

Software Engineer Intern

Jun 2023 – Jun 2024

Codegen International, Colombo

- Resolved backend defects and contributed feature code to a large-scale enterprise Java/Spring Boot application, reducing open bug backlog within assigned modules.
- Built **Splunk SPL dashboards** for real-time error-log aggregation and visual triage, cutting estimated incident response time by ~60% and giving the client team direct visibility into system health.
- Executed **load and penetration testing** across 3 core services using Apache JMeter and OWASP ZAP, identifying critical throughput bottlenecks and security vulnerabilities that were escalated and remediated before production release.

PROJECTS

Adaptive Preprocessing System for Music Genre Classification

Python, TensorFlow, Flask, React, Streamlit

Designed a model-driven audio preprocessing framework that trains an MLP routing model to dynamically select from five signal-processing strategies per sample, targeting noise and degradation in large web-sourced datasets (FMA Medium). Achieved **1.5% accuracy gain** and **35% variance reduction** over a fixed-preprocessing baseline.

CVrealm

Python, JavaScript, Streamlit

ML-powered CV analysis tool that parses uploaded resumes, extracts skill sets automatically, and maps candidates to suitable job roles using a trained classification model.

Skin Consultation System

Java, Java Swing

Desktop scheduling application enabling patients to book dermatology consultations against real-time doctor availability, with conflict detection and appointment management.

EDUCATION

BSc (Hons) Computer Science

2022 – 2026)

Informatics Institute of Technology (IIT), affiliated with University of Westminster

Final-year undergraduate; specialisation in Full-Stack Development.

Foundation Certificate in Higher Education

2021 – 2022

Informatics Institute of Technology (IIT)

TECHNICAL SKILLS

Languages:	Java, Python, TypeScript, JavaScript
Frontend:	Angular, React, RxJS, Streamlit
Backend:	Spring Boot, REST API Design, Flask, Microservices
Testing:	JUnit, Postman, Apache JMeter, OWASP ZAP
DevOps & CI/CD:	Docker, Kubernetes, Git, GitLab
Observability:	Splunk (SPL), Oracle SQL Developer
Databases:	MySQL, Oracle SQL

EXTRACURRICULAR & ACTIVITIES

- Secretarial Member** – IEEE CS Chapter, IIT (2022–24)
- Member** – Rotaract Club of IIT (2022–24)
- Competitor** – Google Hash Code & IEEE Xtreme (2022)
- Volunteer** – IndustPro, Parallax & Openhack 2.0

REFERENCES

Asanka Jayasiri | Senior Architect | asankaj@codegen.net | +94 71 876 0423 Tharindu Maduranga | Associate Tech Lead | tharinduma@codegen.net | +94 71 439 3712