

DILENDRA SAJINI

Research Healthcare Scientist

BCS, The Chartered Institute for IT

MSc Data Science

MSc Software Architecture

BSc Computer Engineering (Hons)

AWS Certified Solutions Architect – Associate

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PERSONAL PROFILE

With over 10 years of experience developing enterprise- level software solutions for UK and Sweden-based companies, specialising in delivering data-driven, scalable software applications. Committed to continuous professional development, consistently enhancing expertise in emerging technologies, including **data science** and **informatics**, to deliver innovative and impactful solutions. Currently working as a **healthcare computer scientist** at **NHS UK**. Completed a master's degree in data science with distinction and am actively seeking an opportunity as a **research healthcare scientist** to contribute to impactful **doctoral research projects**.

SKILLS

Power BI, Tableau, Python (Business Intelligence, Statistical Analysis, Machine Learning Model Development)
ETL/ELT, Data Pipeline Development, Data Warehousing, Data Mart Design, ELK (Elastic Search, Logstash, Kibana), Spark,

RESTful web services Microservices
Java, C#, .Net Core, HTML, CSS,
JavaScript
SQL (SQL Server, Oracle, MySQL,
MongoDB, Hibernate)

AWS, Azure, IBM, IoT, Docker, Nginx,
JBoss, Linux, Windows
Bitbucket, Git Hub, Git Lab, Jenkins CI/CD,
Jira, Npm, Maven

WORK EXPERIENCE

03/2024 – Present

**Sheffield Teaching Hospitals NHS
Foundation Trust., United Kingdom.**

Healthcare Computing Scientist

Acute and community health services

Theatre Scheduling Application

Led the design and development of a customised theatre scheduling application, featuring advanced reporting, integrated filtering, enhanced search, and streamlined scheduling.

Patient Waiting List Management Tool

Enhanced operations by designing and developing a data filtration system to minimise manual workload for the Point of Care patient management process.

STH EPR Downtime AD (Admission Discharge) Tracker

Streamlined the patient flow management by designing and developing a key tool for the Oracle Health Electronic Patient Record during downtime.

Elastic View Custom Query Enhancement

Enhanced the open-source Elastic View web interface by introducing custom query functionality of the elastic search clinical research data warehouse.

Oracle Health Config Support Suite

Designed and developed a tool to streamline configuration management for the Oracle Health Electronic Patient Record System.

10/2019 - 09/2022

Cambio Software Engineering.

Associate Technical Lead

EHR (Electronic Health Record) and clinical decision support system.

Resistance Overview for EOM (Enhanced Order Management)

Attained a 60% reduction in data load time of the web portal by optimising SQL queries and infinite loading.

Cambio Cosmic EHR (Electronic Health Record) System

Delivered 20% optimised performance for order management and test results views by enhancing API queries.

QA Regression Test Suite

Achieved a 40% reduction in development and testing time by restructuring the QA regression suite.

01/2019 - 10/2019

Pearson Lanka (Pvt) Ltd.

Senior Software Engineer

Digital content management and publishing platform for higher education service providers.

Led the design and implementation of a microservice for curated book-building services.

Integrated an identity service for secure portal login in the instructor portal.

Configured Jenkins CI/CD pipelines, Docker on ECS, and ELK for log analysis.

09/2017 - 01/2019

W. D. R. Samarakoon Logistic Pvt.

Senior Software Engineer

A truck connecting platform data exchange between truck drivers and customers.

Enhanced booking scheduling efficiency and automated manual dispatch processes

Led the development and design of the common core module for the new path tracking microservice.

Integrated user requirements into portals by referring to technical specifications and user guides.

01/2013 - 09/2017

Intel Corporation, Persistent Systems.

Senior Software Engineer | Software Engineer

A telecommunication platform facilitates the integration of third-party services for communication service providers and monetization.

Integrating NLP (Natural Language Processing) into smart hospital rooms through the design and development of an IoT for a voice-activated virtual assistant.

Designed and developed an IoT dashboard for remote monitoring and upgrading firmware of smart appliances, enabling risk analysis and automated alerts.

Improved authentication and user experience by integrating Mobile Connect to enhance the OAuth2 flow for developer portal login.

Verified new middleware functionality for OpenStack Gateway, assessing performance and compatibility within the infrastructure through gateway simulation.

EDUCATION

09/2022 - 09/2023

Master of Science in Data Science (Distinction), Leeds Beckett University

09/2015 - 09/2017

Master of Science in Software Architecture, University of Moratuwa

01/2009 - 06/2013

Bachelor of Science (BSc Hons) Computer Engineering, University of Peradeniya

UNIVERSITY PROJECTS

2023

Leveraging deep learning and medical image analysis for enhanced cancer diagnosis.

2017

Led a Python based scientific research and development project to enhance the accuracy and efficiency of breast cancer classification in high-resolution histology images.

Generic IoT terminal for program a SOC.

Developed a user-friendly, remote-programmable GUI environment for smart homeowners, enabling seamless control and customisation of smart home devices.

2013

Web-based content-based image retrieval system.

Developed a content-based image retrieval (CBIR) system to allow for more accurate and efficient image search based on visual content.

PROFESSIONAL DEVELOPMENT

- Followed a 1 year STEM Aspire female mentorship program and CFG degree to gain guidance and support in advancing skills and leadership in STEM fields.
- Volunteered for Barnsley Hospital NHS Foundation Trust, contributing to patient support and healthcare services.
- Contributing to open-source software development projects, collaborating with global communities to enhance and maintain software quality and functionality.