

Dilan Senanayake

Software Engineer | University of Moratuwa

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Work Experiences

Software Engineer

IFS R&D International (Pvt) Ltd

10/2024

PLSQL, Java, Oracle, Aurena, Marble, Azure, Kubernetes, Python

Developing and integrating AI features into IFS Cloud, enhancing automation and intelligent capabilities.

- Integrate Copilot to auto-generate LLM based knowledge articles.
- Leverage ML model APIs to enable predictive features within IFS Cloud.

Designed and implemented analyst-friendly data models in Oracle Database using star schema and materialized views for fast, business-ready reporting.

Associate Software Engineer

ZorroSign, Inc

07/2023 - 10/2024

Spring Boot, .NET, MongoDB, MySQL, Angular, Docker, AWS, Kubernetes, Python, Pytorch

ZorroSign is a trusted digital document and transaction security platform used by governments, businesses, organizations, and individuals globally.

Contributed to backend, frontend, and full-stack development.

- Maintained and enhanced microservices; implemented bug fixes and performance improvements.
- Built services for image-to-PDF conversion and NFS-based S3 storage alternative.
- Migrated data between MongoDB and MySQL for system upgrades.
- Improved frontend performance, reducing load times and fixing bugs.
- Delivered key features like admin settings, premium management, and an AI Form Fill tool.

Trainee Electrical Engineer

Hayleys Fentons (pvt) Limited

03/2022 - 05/2022

- Worked in domestic and commercial solar installation projects.

Trainee Electrical Engineer

Ceylon Electricity Board

06/2022 - 08/2022

- Worked in Power Generation, Transmission and Distribution sectors of CEB.

Projects

Anomaly Detection in Power Generation Plants Using an Artificial Neural Network Approach (FYP)

Built an AI-powered application to detect anomalies in generator bearings at early stages for Kelanitissa Power Station. (F1 score = 0.957)

Python, CNN, Pytorch, Numpy, Matplotlib, Scikit-learn

Computer Vision-based Clothing Attribute Extraction and Classification using Deep Learning

Clothing classification and attribute extraction using images of consumer preferred clothes.

YOLOv7, ResNet50

Predicting Stock Market Trends Using Artificial Neural Networks: A Comparative Study of Deep Learning Models

Compare several deep learning models to achieve the best accuracy for the prediction of stock market trends.

Pytorch, Tensorflow, Python

Extra Curricular Activities

- Vice - Chairman of IEEE IAS - UOM
A Student Chapter of IEEE Industrial Applications Society
08/2021 - 08/2022
- Lead Designer of IEEE ProComm - UOM
A Student Chapter of IEEE Professional Communication Society
03/2021 - 05/2022
- Team member of Weightlifting team - UOM
11/2018 - 05/2022
- Technical Consultant of Siksa Institute of Higher Education
Consulting on online education systems and platforms
Video producer for online education
12/2020 - 12/2021

Soft Skills

Problem Solving | Creativity | Teamwork | Leadership | Organizing

Profile

Innovative and energetic professional with strong teamwork, work ethic, and leadership skills. Committed to continuous learning and staying ahead of industry trends and technology. Actively seeking opportunities to enhance my experience and make a significant industry impact.

Technical Skills

- Java - Spring Boot
- C# - .Net
- Typescript - Angular, NextJS
- MongoDB, MySQL, Oracle
- Docker, Kubernetes
- Python - Pytorch, TensorFlow
- GIT, Postman, SwaggerUI, Temporal, AWS, Burp
- Micro services, N-layer architecture,

Education

MSc in Computer Science (Reading)

University Of Moratuwa

01/2025

- Specialization: Cloud Computing

BSc Engineering (Hons) Graduate

University of Moratuwa

11/2018 - 07/2023

- Specialization: Electrical Engineering
- Second Upper Division Class
- Minor in Entrepreneurship

G.C.E. A/Level Examination: Physical

Science stream - Merit pass with 3A's
(District Rank: 5 | Z score: 2.1064)

Publications

A Data-Driven Approach Based on Artificial Neural Networks for the Detection and Classification of Bearing Anomalies in Power Generation Plants.

May 19, 2023

Leonia, USA

Conference: 2023 IEEE World AI IoT Congress

Description: An AI model to detect bearing anomalies of Power Generation Plants in early stages. (co-authored with S. I. Senarathna and L. A. U. Prasanshi)

Interests

Programming | Listening to music | Gym | Automobile engineering

Referees

Available upon request