

SUDHARAKA FERNANDO

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SOFTWARE ENGINEER - FULL STACK

Enthusiastic Software Engineer with 2 years of experience in full-stack development, specializing in designing scalable microservices architectures, improving application performance, and leading cross-functional teams to deliver high-quality software solutions. Seeking to leverage my knowledge and skills in a practical setting, where I can apply my technical skills and collaborative abilities to contribute effectively to the development initiatives.

PROFESSIONAL EXPERIENCE

Vizuamatix (Private) Limited, Colombo, Sri Lanka

Associate Software Engineer

July 2024 - December 2024

- Full-stack development of a Financial Risk Management System using Vue.js, Spring Boot improving system efficiency by 30% replacing recursive call counts by restructuring service layer.
- Managed version deployments and debugged applications on Linux servers, ensuring smooth operation and stability.
- Reviewed 100+ code commits, promoting code quality and best practices within the development team and reducing post-deployment issues by 15%
- Streamlined Git branch management processes, reducing merge conflicts by 30% and accelerating development timelines by 10%.

Associate Software Engineer (Part-time)

August 2023 - July 2024

- Designed the architecture for the Financial Risk Calculation process, a key component in risk assessment.
- Developed both front-end interfaces and back-end logic for the Financial Risk Management application using Vue.js and Spring Boot.
- Integrated the user module with session management via Microsoft Azure Active Directory, enhancing security and user experience.

Software Engineering Intern

February 2023 - August 2023

- Assisted in backend issue resolution for the Expected Credit Loss (ECL) financial application.
- Developed user interfaces with Vue.js, focusing on intuitive and responsive design.
- Created backend APIs using FastAPI, contributing to the scalability and functionality of the application.

TECHNICAL SKILLS

Programming Languages

- Java
- JavaScript
- Python
- C++
- C#
- C

Frameworks & Libraries

- Springboot
- VueJs
- ReactNative
- Flutter
- .NET
- FastApi

Database Technologies

- MySQL
- PostgreSQL
- MongoDB
- Firestore

EDUCATION

B.Sc. Eng (Hons) - Specialized in Computer Engineering

2020-2024

Minor Specialization in Data Management

Faculty of Engineering

University of Sri Jayewardenepura

Advanced Level - Physical Science Stream

2016-2018

Royal College, Polonnaruwa, Sri Lanka

Combined Maths - A, Physics - B, Chemistry - B, General English - A

GPA - 3.60

- Deans List 2020 - 1st Year 1st Semester
 - Deans List 2024 - 4th Year 1st Semester
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PROJECT EXPERIENCE

INDUSTRY

IRR - Internal Risk Rating System

Cutting edge financial and credit risk management system which assist all levels of management to manage risk segments effectively with early warning signals of risky financial sectors.

- Use micro-service architecture for the project
- Tools & Technologies - Java, Springboot, PostgreSQL, VueJs

ECL - Expected Credit Loss Application

Tool designed for financial institutions to estimate potential credit losses on loans and other financial assets according to IFRS 9 standards .

- Full stack development of the project
- Develop user module of the project using Microsoft Entra ID for secure authentication and authorization
- Tools & Technologies - Microsoft Entra ID , Java, Springboot, PostgreSQL, VueJs

PERSONAL

Audio to Visual Weather News Conversion with Generative AI (FYP)

This system converts audio inputs (weather related) in to visual graphics, displaying that weather event descriptively. This is specially designed to support the deaf community

- Tools & Technologies - Python, PyQt5, Stability AI, SIGML notation, NLP, Text-to-image generation, Image-to-video generation

Airline ticket reservation system

Microservice architecture based application for airline ticket booking, viewing and checking flight schedules

- Tools & Technologies - Java, Springboot, PostgreSQL, React, Eureka Server
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REFEREES

Dr. Udaya Wijayanayake

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Head of the Department

Department of Computer Engineering

University of Sri Jayewardenepura

Mr. Pramuditha Sirisena

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Senior Software Engineer

Sysco LABS