

DESHAN FERNANDO

Software Engineering Intern | Data-Oriented Software Engineer

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GitHub: github.com/deshanFdo | LinkedIn: linkedin.com/in/DeshanFdo31 | Portfolio: lawlinklk.com

PROFESSIONAL SUMMARY

Detail-oriented software engineering undergraduate with hands-on experience in full-stack development, RESTful API design, secure authentication systems, and data-oriented application development. Strong foundation in backend engineering, frontend frameworks, databases, and Python-based data analysis. Seeking an internship opportunity to contribute to scalable enterprise systems while growing skills in software engineering and data-driven technologies.

EDUCATION

BSc (Hons) in Computer Science – Reading

University of Westminster, UK – Informatics Institute of Technology, Sri Lanka

Jan 2023 – Present

Foundation Certificate in Higher Education – IT (Distinction)

Informatics Institute of Technology

Jan 2023 – Sep 2023

PROFESSIONAL EXPERIENCE

Software Engineer Intern – Sri Lanka Telecom (Jun 2025 – Present)

- Contributed to a production-grade enterprise employee assessment platform as a full-stack engineer.
- Designed and implemented RESTful backend services using Node.js and TypeScript.
- Applied role-based access control (RBAC) and authorization best practices for secure data handling.
- Optimized API performance and database queries to improve application efficiency.
- Developed modular, reusable React components following clean code principles.
- Participated in code reviews, debugging, and system refactoring in an Agile environment.

PROJECTS

LawLinkLK – Client & Lawyer Connecting Platform

Full-stack web application enabling secure messaging, appointment scheduling, and role-based access.

Integrated real-time communication, authentication, and AI-powered user assistance.

Technologies: React, Node.js, MongoDB, Tailwind CSS, Socket.io

Smart Employee System

Enterprise-style application featuring REST APIs, JWT authentication, role-based authorization, and AI chatbot integration for enhanced user experience.

Technologies: Node.js, TypeScript, React, MySQL

Airline Seat Booking System

Backend system for managing airline seat reservations, passenger data, and booking workflows.

Technologies: Java

DATA & ANALYTICS EXPERIENCE

- Performed data analysis using Python, pandas, and NumPy.
- Conducted data cleaning, transformation, and exploratory data analysis (EDA).
- Worked with structured datasets to extract insights and support application features.
- Basic familiarity with machine learning workflows and data preprocessing.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, SQL, C#

Frontend Technologies: React, HTML5, CSS3, Tailwind CSS, Material UI, Axios

Backend Technologies: Node.js, Express.js, RESTful APIs, JWT Authentication, RBAC, MVC Architecture

Databases: MySQL, MongoDB, Relational Databases, NoSQL Databases

Data & Analytics: pandas, NumPy, Data Cleaning, Exploratory Data Analysis, Basic Machine Learning Concepts

DevOps & Cloud: Microsoft Azure Fundamentals, Vercel, Render, CI/CD basics

Tools & Platforms: Git, GitHub, Postman, Jira, IntelliJ IDEA, VS Code, Linux basics

Software Practices: Agile/Scrum, Object-Oriented Programming (OOP), Clean Code, Debugging, Unit Testing basics

CERTIFICATIONS

- Postman API Fundamentals – Student Expert
- Python for Data Analysis: Solve Real-World Challenges – LinkedIn Learning
- Introduction to Databases for Back-End Development – Meta (Coursera)
- Microsoft Azure Fundamentals (AZ-900) – LinkedIn Learning
- Cloud Computing: Understanding Core Concepts – LinkedIn Learning

ACHIEVEMENTS & ACTIVITIES

- Team Leader – IEEE Xtreme Encode (6-week competitive programming challenge).
- Led Team Wanderer to 10th place in Region 10 (Jul – Sep 2024).
- Participant – Hult Prize On-Campus Competition.