






ASHEN SAMARASEKERA

Software Engineer

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Profile

Final year Software Engineering undergraduate at Cardiff Metropolitan University with a strong passion for web development. Dedicated to building innovative, efficient, and user-friendly software solutions. Eager to apply my skills and contribute to impactful software projects.

Professional Experience

Software Engineer Intern

2024 May - 2025 May (1 year)

Expernetic pvt (ltd)

I completed a **1-year internship at Expernetic Pvt. Ltd**, working in a **collaborative Agile environment**. During my tenure, I contributed to frontend development, supported the team in delivering features efficiently, and actively engaged in learning and applying best practices. I gained hands-on experience working as a supportive and initiative-taking team member while enhancing my technical and professional skills.

- Developed and maintained responsive and high-performance user interfaces using **React, Next.js, TypeScript, Redux, RTK Query, and Formik, Nextra, Tailwind, MUI** ensuring cross-browser compatibility.
- Worked on **multiple projects** including **Test Bolt web application (QA tool), Test Bolt documentation site, Inzing HR application**, and the **company website(Expernetic)**, contributing to frontend development, feature implementation, and overall project delivery.
- Participated in code reviews, provided constructive feedback, and implemented best practices to maintain high-quality, consistent code.
- Applied SOLID principles to design and implement maintainable, scalable, and robust frontend solutions aligned with business requirements.
- Collaborated effectively in an Agile Scrum team, attending daily stand-ups and sprint reviews to deliver features on time.
- Gained hands-on experience in cloud native frontend development, contributing to scalable applications and modern deployment practices.
- Assisted in debugging, testing, and documenting frontend features to improve system reliability and maintainability.
- Applied UI/UX best practices to enhance user experience, usability, and interface design.

Service letter - <https://jumpshare.com/folder/EKm5NNXmH5vGG283VC5I>

Projects

1 . Community Issue Reporting Platform Web App (final year project)

The Community Issue Reporting Platform is my final year project, developed as a web application to allow residents of Makola to report local issues efficiently. Built using **Next.js(App router), Supabase, Redux, RTK query and ShadCN**, the platform enables users to submit issues with photos and location data, track the status of reports, and improve community engagement. The project focuses on usability, real-time updates, and secure authentication, providing a practical solution for local governance and citizen participation. (<https://github.com/Ashen-sam/makola-web-application>)

2. Rainfall Prediction AI Model

This project is a machine learning model developed in **Google Colab** to predict rainfall using various algorithms **including XGBoost, Random Forest, Decision Tree, and NLP-based** features. The model has been tuned for optimal performance and can analyze patterns in weather data to provide accurate rainfall predictions. It demonstrates a combination of classical ML techniques and modern data preprocessing to achieve reliable results. (<https://github.com/Ashen-sam/rainfall-prediction-model>)

3 . Pet Care Mobile App

The Pet Care Mobile App was my very first mobile application development project, built using **Java and SQL**. The app introduced two types of users: customers and pet-care providers, offering a basic yet practical solution for managing pet care services. (<https://github.com/Ashen-sam/PET-CARE-APP>)

4 . Megacity Cab Service Web App

This is a web-based application that enables customers, drivers, and admins to interact efficiently. Customers can book vehicles and manage their bookings, drivers can accept or reject trips, and admins can oversee vehicles, drivers, and overall system activity. The application was developed using **HTML, CSS, JavaScript for the frontend, Java (JSP & Servlets) for the backend, MySQL** as the database, and deployed on Apache Tomcat. (<https://github.com/Ashen-sam/java-web-mega-city-cab>)

5 . Store Inventory Management Web App

A web-based application with Admin and Customer roles designed to manage products, orders, and inventory efficiently. Developed using **JSP, Servlets, MySQL**, and deployed on Apache **Tomcat** through NetBeans for seamless management of store operations. (<https://github.com/Ashen-sam/store-inventory-management-web-app>)

6 . Sri Lanka Railway Web App

The Sri Lanka Railway Web project was developed to modernize railway travel experiences across Sri Lanka. It integrates the **.NET** technology stack with **React.js, Tailwind CSS, SQL, and Sass**, creating a smooth and scalable user experience for travelers.

7 . For-You-Shop Web (Frontend) Web ap

The For-You-Shop website is an e-commerce platform where I implemented the frontend using **HTML, CSS, and JavaScript**, while the backend was built with **PHP, MySQL, and JavaScript**, giving me exposure to end-to-end web development. (<https://github.com/Ashen-sam/4You-shop>)

8 . Apple Store Desktop App

The Apple Store App is a GUI-based desktop application designed for cashier, manager, and product/stock management operations. I developed this application using **Java and Java Swing**, focusing on functionality and simplicity in managing inventory. (<https://github.com/Ashen-sam/APPLE-ISTORES>)

9 . Team Web (Tech Chronicles)

Team Web (Tech Chronicles) was my first responsive website project, created using **HTML, CSS, and JavaScript**. It demonstrates my foundational skills in web development and the ability to build mobile-friendly responsive designs. (<https://github.com/Ashen-sam/TEAM-TECH-TRONICLES>)

10 . Train Web Application (HND Final project)

The Train Web Application was developed to modernize railway booking and travel management in Sri Lanka. It allows passengers to check train schedules, reserve seats, and manage bookings conveniently online. The project was built using **PHP, HTML, CSS, and MySQL** to ensure smooth functionality and user-friendly design. (<https://github.com/Ashen-sam/final-Project>)

10 . Portfolio Ashen Samarasekera V2

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Technical Skills

JavaScript, TypeScript, React.js, Next.js, Redux, RTK Query, Python, HTML, CSS, Tailwind CSS, Git, GitHub, Clerk, Azure DevOps/cd, postman, click up , V0 , Claude ,GPT , Vercel

Education

BSc (Hons) in Software Engineering
Cardiff Metropolitan University

2022 Sep - Present
(pending results)

GCE Advanced Level – Biology Stream

2018 -2020

Subjects

Object Oriented Programming	– 70
Data Structures and Algorithms (Exam)	– 70
Web Application Development	– 70
Mobile Application Development	– 70
Database Design and Development	– 67