ASHEN SAMARASEKERA

SOFTWARE ENGINEER

iamashen27@gmail.com | Ashen-Sam | +94 774728548 | Ashen Samarasekera | Portfolio

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. I am eager to apply my skills and contribute to impactful software projects.

Technical Skills

React | TypeScript | JavaScript | Redux | RTK Query | Tailwind | Next JS| MUI | Shadcn | .NET | Java | JSP | Servlets | Swing | Node | Mysql | Supabase | CI/CD | Web | Desktop| Frontend | Full-Stack | Azure DevOps | GitHub | Vercel | Docs (Nextra) | Postman

Professional Experience

Expernetic pvt (ltd)   (2024 - 2025) - 1 YEAR

Software Engineer Intern

- Worked in a collaborative Agile environment, contributing to frontend development and timely feature delivery.
- Developed and maintained responsive, high-performance user interfaces ensuring cross-browser compatibility.
- Assisted in debugging, testing, and documentation to improve system reliability.
- Enhanced UI/UX design and usability with a focus on intuitive interfaces and clean layouts.
- Gain hands-on experience with cloud-native frontend development and modern deployment practices.
- Contributed to multiple projects including Test Bolt, Inzinq HR application, and the Expernetic company website.
- Participated in code reviews, applied SOLID principles, and followed modern development standards for scalable, maintainable code.

Tech Stack: React, Next.js, TypeScript, Redux, RTK Query, Formik, Nextra, Tailwind CSS, Material UI (MUI)

Projects

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

A web application for Makola residents to easily report local issues, upload photos and location data, and track report statuses with real-time updates and secure authentication enhancing community engagement.

Tech Stack : Next.js (App Router), Supabase, Redux, RTK Query, ShadCN, Typescript   **GitHub Link**

2. Rainfall Prediction - AI Model

A machine learning model built in Google Colab to predict rainfall using XGBoost, Random Forest, Decision Tree, and NLP-based features. It analyzes weather data to deliver accurate, through optimized ML techniques.

Tech Stack : Python, Google Colab, Scikit-learn, XGBoost, Pandas, NumPy, NLP Libraries   **GitHub Link**

3 . Project Management - Web App (ongoing)

A collaborative web app that lets users create and manage projects, assign tasks, comment, react/like, and follow progress in real time.

Tech Stack : React , ShadCN , .NET, Supabase , Redux , RTK Query, Typescript   **GitHub Link**

4 . Pet Care - Mobile App

My first mobile application that connects pet-care providers and customers, enabling easy management of pet services and interactions through a simple, user-friendly interface.

Tech Stack : Java , SQL , Android studio   **GitHub Link**

5 . Megacity Cab Service - Web App

A web application where customers can book rides and drivers can manage trips, while admins oversee operations enabling smooth coordination between all users.

Tech Stack : HTML, CSS, JavaScript, Java (JSP & Servlets), MySQL, Apache Tomcat   **GitHub Link**

6 . Store Inventory Management - Web App

A role-based web application where admins can manage products and inventory, while customers can browse and place orders streamlining store operations.

Tech Stack : JSP, Servlets, MySQL, NetBeans, Apache Tomcat   **GitHub Link**

7 . Sri Lanka Railway - Web App

A modern railway management web app integrating .NET, React.js, Tailwind CSS, SQL, and Sass to improve user experience and scalability for travelers.

Tech Stack : .NET, React.js, Tailwind CSS, SQL, Sass CSS

8 . For-You-Shop - Web (Frontend) App

An e-commerce platform where customers can browse and purchase products online, featuring a dynamic frontend and integrated backend for seamless shopping experiences.

Tech Stack : HTML, CSS, JavaScript, PHP, MySQL   **GitHub Link**

9 . Apple Store - Desktop App

Apple Store App is a GUI-based desktop application designed for cashier, manager, and product/stock management operations and focuses on functionality and simplicity in managing inventory.

Tech Stack : Java, Java Swing, MySQL   **GitHub Link**

10 . Team Web (Tech Chronicles) - Web Site

A collaborative, responsive website project that highlights my teamwork and foundational web development skills in creating mobile-friendly designs.

Tech Stack : HTML , CSS , JavaScript   **GitHub Link**

11 . Train Web Application (HND Final project)

A web application that modernizes railway booking in Sri Lanka, allowing passengers to view schedules, reserve seats, and manage bookings through an intuitive online system.

Tech Stack   : PHP , MySQL , HTML , CSS , JS   **GitHub Link**

Education

Cardiff Metropolitan University, UK   2022 Sep - Present

BSc (Hons) in Software Engineering   (*Pending results*)

- Object Oriented Programming   – 78
- Data Structures and Algorithms (Exam)   – 74
- Web Application Development   – 82
- Mobile Application Development   – 70
- Database Design and Development   – 67

Asoka Vidyala, Colombo 10   2019 - 2022

GCE Advanced Level – Biology Stream

Certifications

JavaScript certification   **Postman API fundamentals Student Expert**

Simplilearn , January 2024   Postman , January 2024

Credentials   Credentials

React JS Certificate

Meta , January 2024

Credentials

Refference

Lahiru lakshitha   **Amanda Ekanayake**

Software Engineer , Expernetic   Associate Business Analyst , Expernetic

Mobile : +94 070 359 3427   Mobile : +94 77 487 7731

Email : lahiru7239lak@gmail.com   Email : ekanayakeamanda01@gmail.com