

ASHEN SAMARASEKERA

SOFTWARE ENGINEER



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Ashen-Sam |



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Ashen Samarasakera |



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, Inzing 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

(<https://github.com/Ashen-sam/makola-web-application>)

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

(<https://github.com/Ashen-sam/rainfall-prediction-model>)

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
(<https://github.com/Ashen-sam/project-manage-app-client>)

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
(<https://github.com/Ashen-sam/PET-CARE-APP>)

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
(<https://github.com/Ashen-sam/java-web-mega-city-cab>)

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
(<https://github.com/Ashen-sam/store-inventory-management-web-app>)

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
(<https://github.com/Ashen-sam/4You-shop>)

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
(<https://github.com/Ashen-sam/APPPLE-ISTORES>)

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
(<https://github.com/Ashen-sam/TEAM-TECH-TRONICLES>)

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
(<https://github.com/Ashen-sam/final-Project>)

Education

Cardiff Metropolitan University, UK

B.Eng (Hons) in Software Engineering

2022 SEP - PRESENT

(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

Simplilearn , January 2024

[Credentials](#)

Postman API fundamentals Student Expert

Postman , January 2024

[Credentials](#)

React JS Certificate

Meta , January 2024

[Credentials](#)

Reference

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