WASFAN WAZEEM

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" An Information Systems undergraduate with a strong IT background, passionate about using technology to solve real-world problems. Demonstrated leadership and teamwork in social clubs and sports teams, honing project management and collaboration skills. Committed to continuous learning and eager to expand knowledge and experience in the field.."

ACADEMIC QUALIFICATION

University of Colombo School of Computing, Sri Lanka   **May 2022 - Present**

B.Sc (Hons) – Information Systems
- CGPA: 3.474 (Reading) | Rank: 16 | Dean's List: Second Year First Semester

St. Thomas College, Matale, Sri Lanka   **Nov 2020**

GCE Advanced Level – Maths Stream

PROFESSIONAL QUALIFICATION

BCS HEQ – British Computer Society, The Chartered Institute for IT (UK)   **Feb 2021 - Present**

Professional Graduate Diploma in Information Technology (Reading)

WORK EXPERIENCE

WSO2 LLC, Sri Lanka   **Nov 2024 – Apr 2025**

Software Engineer Intern
- Contributed to an R&D project enabling Mobile CI/CD capabilities in Choreo, WSO2's cloud-native integration platform.
- Designed and implemented a new Mobile Application component to support Android app builds.
- Conducted competitor analysis and created UI/UX mockups for mobile build and publish workflows.
- Developed custom Argo Workflows and Docker images for automated Android builds, integrated Azure Blob Storage, and implemented secure signing key management using Kubernetes secrets.
- Collaborated with cross-functional teams, delivered internal demos, and iterated based on feedback.
- Technologies: React.js, TypeScript, Node.js, Go, Ballerina, Android, Kubernetes, Docker, Argo Workflows, GitOps, Azure Blob Storage.

Legacy Health LLC, Sri Lanka   **Nov 2020 – Feb 2022**

Executive Operations

PROJECTS

TrashSmart – Your All-in-One Waste Solution   **2024 - 2025**

Developed a smart waste management system to optimize waste collection and sustainability. Enabled real-time monitoring of smart bins, trucks, and routes; supported role-based management for organizations, households, and contractors; and implemented an auction system to improve recyclable waste recovery.

– Technologies: React,js, Java Spring Boot, React Native, PostgreSQL, Arduino, Sensors, Git, Jira, GoogleMaps, Tailwind CSS, NativeWind, Docker

Fix Fast Buddy – Vehicle Breakdown Asisstance System   **2023**

Developed a real-time vehicle breakdown assistance system enabling efficient service requests between vehicle users, individual mechanics, and auto garages. Implemented location-based request distribution, direct request handling for independent mechanics, and job assignment workflows for garages to manage and allocate tasks effectively.

– Technologies: Android Native(Kotlin), Php, MySQL, Retrofit, Firebase, Google Maps, XML, Git, Github

Hekto– AI-Powered Smart E-Commerce Platform   **2025**

Developed a furniture marketplace featuring an AI shopping assistant for natural language product discovery. Implemented a headless CMS for real-time inventory synchronization and engineered a secure checkout pipeline with Stripe. Optimized performance using modern state management and responsive design for a high-speed user experience.

– Technologies: Next.js, React,js, Sanity CMS, Stripe, Clerk, Tailwind CSS, Vercel AI SDK, Zustand

ZORO – MERN Stack E-Commerce App with Admin Dashboard   **2024**

Developed a full-featured e-commerce platform using the MERN stack, enabling product browsing, filtering, and secure purchases. Integrated Stripe payments and JWT-based authentication. Built an admin dashboard for managing products, orders, users, and revenue analytics with data visualizations.

– Technologies: React.js, Node.js, Express.js, MongoDB, Redux Toolkit, Stripe API, JWT, Firebase Storage

ACADEMIC RESEARCH

Cognitive-Inspired Defense Framework for Federated Learning   **Ongoing**

Developing an adaptive defense architecture to mitigate model poisoning attacks in Federated Learning. Integrates cognitive reasoning loops (OODA and MAPE-K) for proactive anomaly detection and dynamic response. Implemented scalable FL pipelines using Flower and PyTorch, with modular orchestration for multi-client simulations and automated evaluation for accuracy, ASR, and FPR under adversarial conditions.

CERTIFICATIONS

- **AWS – AWS Fundamental Specialization (Coursera)**
- **Meta – React Native Specialization (Coursera)**
- **Meta – React Basics (Coursera)**
- **Meta – Introduction to Mobile Development (Coursera)**
- **Coursera Project Network - Docker for absolute beginners (Coursera)**
- **Postman – Postman API Fundamentals Student Expert (Postman Academy)**
- **Amigoscode – Spring Boot for Beginners**

SKILLS AND INTERESTS

Languages: Java, Kotlin, JavaScript, TypeScript, PHP, C/C++

Frontend: React.js, Next.js, Tailwind, NativeWind

Backend & APIs: Node.js, Express.js, Spring Boot, PHP, REST, JWT

Mobile: React Native, Android (Kotlin), Firebase, Retrofit

Databases: MySQL, PostgreSQL, MongoDB, Firebase

Cloud & DevOps: Docker, Kubernetes, Argo Workflows, GitOps, Azure Blob Storage, Kafka

Tools: Git, Jira, Postman, Figma, Sanity, Stripe, Google Maps, Clerk, Zustand, Redux, Vercel, Wordpress, Github Copilot

Soft Skills: Fast Learning, Communication, Leadership, Problem Solving, Time Management, Teamwork

Areas of Interest: Software Engineering, Artificial Intelligence & Machine Learning, Web3 & Blockchain, Sports

EXTRA-CURRICULAR, SPORTS, VOLUNTEERING & ACHIEVEMENTS:

Captain of the University of Colombo Wrestling Team	**2024**
University of Colombo Wrestling Colours Awarded	**2023 & 2024**
Inter-University Wrestling Championship under 61kg – Silver Medalist	**2024**
Sri Lanka University Games(SLUG) Wrestling under 61kg – Bronze Medalist	**2023**
Central Province Wrestling Championship under 65 kg - Participant	**2024**
Team member in School Cricket Team (Sussex College Kandy / St.Thomas College Matale)	**2015-2017, 2019**
3rd Grade in Kick Boxing (Orange Belt) issued by World Martial Arts Association	
Top 10 team in FreshHack Finals organized by the University of Colombo School of Computing.	**2022**
17th Place in Duothon 3.0 organized by the IEEE of NSBM.	**2022**

Active member of multiple organizations: Amalgamated Club UOC, Rotaract Club of UCSC (Community Service Avenue), CompSoc, IEEE Student Branch of UCSC, ISACA UCSC Student Group, and Entrepreneurship & Innovation Club, Akurana Undergraduates and Young Graduates Association.

REFEREES

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