Ashen Fernando

FRONT-END DEVELOPER | COMPUTER SCIENCE UNDERGRADUATE

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ABOUT ME

Dedicated and results-driven Front-End Developer with a strong academic background in computer science and a proven ability to design and deliver user-centric digital solutions. Skilled in transforming complex requirements into intuitive, efficient, and scalable applications.

Fluent in both Sinhala and English, with working proficiency in Tamil — bringing strong communication skills to multicultural and diverse teams. Committed to continuous learning and the pursuit of excellence in software development and system design.

PROJECTS

Tank Track | Front End   **2024 Nov-2025 March**

Flutter, Dart, Firebase, MongoDB

- Led the front-end development of a real-time septic tank monitoring system designed to prevent overflows and environmental hazards. Integrated IoT devices (ultrasonic sensor, ESP8266 WiFi module) for real-time water level tracking, with Firebase for live data sync and MongoDB for historical analysis.
Pitched and demonstrated the project at VisionX Hackathon 2025, hosted by IIT, showcasing its practical impact and technical architecture.

Real-Time Ticketing System | Full- Stack   **2024 Oct**

Java, JavaFX, MySQL, Multithreading

- Developed a multithreaded ticket booking system with real-time seat availability and concurrency management. Used JavaFX for a dynamic UI and MySQL for secure transactional storage. Applied MVC architecture for clean code separation and scalability.

Zyrro Hunger | Front End   **2024 July**

HTML, CSS, JavaScript

- Designed an interactive, responsive website supporting the UN's Zero Hunger goal. Features included a donation-integrated shop, visual storytelling via an image gallery, and a modern user interface to promote food donation campaigns.

TECHNICAL SKILLS

Languages: Java, JavaScrpit, Python, Kotlin, Dart, HTML, CSS

Frameworks/Libraries: React.js, Flutter, Jetpack Compose

Databases: Firebase, MongoDB, MySQL

Tools: Figma, Git, Intellij, VS Code, Android Studio

EDUCATION

BSc (Hons) Computer Science   **2024 Jan- Present**

Informatics Institute of Technology

Foundation Certificate in Higer Education IT – Distinction Award   **2023 May – 2023 Dec**

Informatics Institute of Technology

Advanced Level - 1 C pass & 2 S passes   **2022**

St. Peters College, Bambalapitiya

Ordinary Level – 5 A passes & 4 B passes   **2019**

St. Peters College, Bambalapitiya

ACHIEVEMENTS & SKILLS

- The Project Manager of the Tank Track Project
- Pitched and marketed *Tank Track* at VisionX Hackathon — IIT, 2024
- Completed Foundation with a Distinction Award Informatics institute of technology
- Runners up - Cricket | Awarded as the runners up at IIT Sports meet 2023.
- Champions - Cricket | Awarded as the champions at IIT Sports meet 2024.
- Captained the School Basketball House team
- Vice Captained the School Basketball Team
- Member of the Leo Club of IIT District 306 A1
- A batch Representative at IIT

REFERENCE

Sanjula Samarasekara,

Assistant Lecturer University/Department: IIT,

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