



SACHINI KALANSOORIYA

Software Engineer Intern

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About Me

Third-year IT undergraduate with a strong passion for technology and innovation, equipped with hands-on experience in full-stack development and secure software design. Skilled in adapting to diverse system architectures and development methodologies, and capable of performing effectively both independently and within collaborative teams. Known for strong problem-solving abilities, quick learning, and a dedicated work ethic. Eager to apply creativity and technical expertise to contribute to meaningful and impactful projects.

Education

B.Sc. (Hons) in Information Technology

2023 - Present

University of Moratuwa, Faculty of Information Technology

- CGPA: 3.37/4.0

G.C.E (Advanced Level)

2021

Anuladevi Balika Vidyalaya, Galle

- Z-score: 1.7953
- ICT - A, Combined Maths - B, Physics - B

Technical Skills

Programming Languages: Java, C, Python

Database: PostgreSQL, MongoDB, MySQL

Web Development: HTML, CSS, Tailwind, React, Angular, SpringBoot, Next.js, , JavaScript, Three.js, Node, Express, Socket.io, PHP, Python, Ballerina

Version Control Tools: Git, GitHub

DevOps & Deployment Tools: Docker

Mobile Development: React Native

Other Tools: Postman, Jira, Figma, Adobe Lightroom Pro, GIMP, Canva

Projects

WEBCAD - 2D & 3D Modeling Creation System - Collaboration with Turbogen

Second Year Group Project

- Implemented user account personalization
- Engineered interactive 2D shape creation tools with real-time editing and grouping features
- Developed snap-to-grid functionality for all shapes, enabled users to create custom designs.
- Designed and integrated OBJ file import/export functionality
- Technologies: React.js, Tailwind, Three.js, Node, Express, PostgreSQL, Socket.io, Docker

STYRA - AI Wardrobe Stylist App [Repository](#)

- Designed and developed an AI-powered mobile app for personalized outfit recommendations using weather, location and occasion data (using a pretrained OpenAI model - CLIP).
- Implemented wardrobe management with photo uploads, AI-driven clothing categorization, and digital closet organization.

- Integrated favorites, worn history tracking, JWT authentication, and a FastAPI backend with PostgreSQL.
- Technologies: React Native, FastAPI (Python), PostgreSQL, Hugging Face Transformers (CLIP), PyTorch, Node.js

CHATLY - A Real-Time Chat App [Repository](#)

- Developed a real-time chat application with seamless messaging, supporting text, emojis, and images.
- Implemented online presence tracking, secure user authentication, customizable profile pictures, and dark/light theme switching.
- Technologies: React, Node.js, Express, MongoDB, Tailwind CSS, Socket.IO, Postman

To-Do WEB APP - Smart Task Manager [Repository](#)

- Implemented Authentication with Google OAuth2.
- Enables users to create, update, and manage tasks with priority levels, statuses, and due dates
- Features real-time updates and responsive UI with Tailwind CSS, Kanban board and calendar views, and advanced filtering.
- Technologies: Angular, Spring Boot, MySQL, Tailwind CSS, JWT, Google OAuth2, RxJS

Automobile Service Management System (Group Project) [Repository](#)

- Implemented an appointment booking module with a user-friendly UI, backend APIs, and schedule availability logic.
- Designed database models for efficient scheduling and history tracking, ensuring seamless system integration.
- Technologies: Spring Boot, React, MySQL, Docker, WebSockets, REST APIs

SAFE ROUTE - A Real-Time Hazard Reporting & Navigation Platform (Group Project) [Repository](#)

- Built hazard report submission with images and geolocation, developed route selection, filtering, and interactive map features
- Implemented real-time updates for reports and comments, and RDA dashboard for report management
- Technologies: Next.js, Node.js, Ballerina, PostgreSQL, Tailwind CSS, Google Maps API, REST API, JWT

MEDISYNC - Smart Medicine Dispenser & Reminder (IoT Hardware Group Project) [Repository](#)

- Configured 20x4 LCD display with I2C module for real-time medicine information and Wi-Fi status monitoring
- Implemented buzzer alarm system with ultrasonic sensor integration to ensure medicine retrieval verification
- Developed WhatsApp notification system using CallMeBot API for real-time caregiver alerts on medication adherence and inventory levels
- Hardware: ESP32, NEMA 17 Motors, Ultrasonic Sensor, RTC module, Keypad, 20x4 LCD, Buzzer, I2C Module
- Software: Arduino IDE, Firebase, CallMeBot API, EasyEDA, CorelDRAW, SolidWorks

Certifications & Achievements

- Version Control Certificate – Coursera, offered by Meta
- Python for Beginners – University of Moratuwa
- Innovate with Ballerina Coding Challenge – Participant (Organized by IEEE UoM in collaboration with WSO2)
- CodeRush 2024 – Hackathon Participant (Organized by INTECS, University of Moratuwa)

Extracurricular Activities

- Member - FIT Moments (IT Faculty Official Media Unit, University of Moratuwa)

References

Ms. M.N Chandimali

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