

RAKHITHA JAYAMINDA SOORIYABANDARA

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PROFESSIONAL SUMMARY

Third-year undergraduate pursuing a BSc (Hons) in Information Technology & Management at the University of Moratuwa, possessing robust full-stack software development expertise across Java, Python, React, and Spring Boot. Skilled in architecting and delivering IoT solutions, scalable applications, and content management systems. Adept in relational database design, cloud infrastructure, and regulatory compliance standards. Combines technical capabilities with real-world experience across banking internships and operations management at Smartzi Lanka, actively seeking a software engineering internship to leverage full-stack skills.

EDUCATION

BSc (Hons) Information Technology & Management (Third Year Undergraduate)

University of Moratuwa, Sri Lanka (CGPA: 3.82)

G.C.E Advanced Level 2022-2023 (Physical Science Stream)

D.S. Senanayake College Col.07, Sri Lanka

WORK EXPERIENCE

Operations & Admin Executive | Smartzi Lanka (Pvt) LTD. | April 2025 - August 2026

Banking Intern | Commercial Bank of Ceylon PLC. | August 2023 - December 2023

SKILLS & STRENGTHS

Languages: Java, Python, TypeScript, C, PHP, HTML/CSS

Frontend: React, React Native, Next.js, Tailwind CSS, Bootstrap, responsive design

Backend & APIs: Spring Boot, Node.js, RESTful API Design, WebSockets (Real-time Sync), Google Apps Script, Gemini API (LLM Integration)

Database & Data: MySQL, MongoDB, PostgreSQL, Supabase, relational database design

Cloud & DevOps: Azure, Vercel, GitHub Actions (CI/CD), Git, Docker, Kubernetes, Maven

Testing & Tools: Vitest, ESLint, Postman, Figma, Android Studio, Jira

Core CS: Data Structures & Algorithms (DSA), OOP, Design Patterns

Additional Skills: Linux (Kali, Ubuntu), Arduino, ESP32, embedded C, RFID, wireless communication, MS Office Tools, GDPR Compliance, Data Handling, Team Work, Customer Service, Adaptability, Problem Solving

TECHNICAL PROJECTS

UniVerse - Integrated Student Productivity Application (Grade: A+)

- Developed full-stack cross-platform application consolidating 8 student life modules (productivity, finance, academics, habits, careers, marketplace) into a unified interface.
- Built React JS/React Native frontends connected to Spring Boot API backend with secure JWT + BCrypt authentication and role-based access control for 4 user types.
- Implemented real-time WebSocket synchronization, Azure Blob Storage integration, and the Gemini API utilizing JSON schemas to automatically parse unstructured CV data.
- Led 5-person team through Agile development cycles using Jira and GitHub feature branching.

Tech Stack: React JS, React Native, Spring Boot, MySQL (Aiven), Azure Blob Storage, WebSocket, JWT

Minimalist Blog Web Application

- Developed full-stack blogging CMS with secure authentication (password hashing, session tokens), user registration, and role-based post management using prepared SQL statements for data integrity.
- Engineered custom responsive UI with native dark-mode support, eliminating framework dependencies; implemented access control ensuring users can only modify their own posts.

Tech Stack: PHP, MySQL, HTML/CSS

Kamu - Mood Based Restaurant Discovery Webapp (In Development)

- Co-developed AI-powered restaurant discovery app enabling semantic mood-based search using pgvector embeddings to match user cravings to restaurants, replacing traditional category filters.
- Built full-stack application: Next.js 16 + React 19 + TypeScript frontend deployed on Azure App Services; Supabase PostgreSQL backend handling authentication, database, and file storage.
- Implemented dual-platform ecosystem: kamu customer discovery app and kamu_restaurants owner management portal sharing single Supabase infrastructure with role-based security.
- Integrated Mapbox for geospatial discovery, PostGIS for location-aware queries, Vitest for testing; configured automated continuous deployment from GitHub to Azure App Services.

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Node.js, Azure App Services, Supabase (PostgreSQL/Auth/Storage), pgvector, PostGIS, Mapbox, Vitest

Green Tag - Smart Billing System (Grade: A | patent-pending)

- Led 4-person team through a patent-pending IoT smart billing system designed to automate retail checkout operations through weight-based dynamic pricing and RFID-based customer identification.
- Architected distributed embedded systems with Arduino and ESP32 microcontrollers communicating via wireless protocols, coordinating real-time data between weighing stations and billing terminals.
- Implemented embedded C firmware for precise weight sensing, customer authentication, and transaction processing, reducing manual checkout time and environmental waste from paper receipts.

Tech Stack: C, Arduino, ESP32, RFID, embedded systems, wireless communication

Automated Email Generator

- Built Google Apps Script automation tool that transforms raw spreadsheet data into batch HTML-formatted Gmail drafts, grouping records by recipient for efficient bulk communication.
- Implemented data aggregation logic with template-based HTML generation, reducing manual email composition overhead and enabling scalable, error-free bulk outreach from simple tabular data.

Tech Stack: Google Apps Script, HTML, Gmail API

EXTRACURRICULAR ACTIVITIES

Swimming: University Colors 2024, 2025; Western Province Colors 2018; College Colors 2014, 2016, 2018

Water Polo: College Team Captain 2021-22; College Colors 2019

Basketball: Former University Team Member; College Team Member

Rotaract Club, University of Moratuwa: Member

Quiz Club, D.S. Senanayake College: Top Board Member / Event Organizer

VOLUNTEERING

Zooxanthellae (Coral Planting Initiative): Diver & Organizing Committee Member - Coral planting initiative at Mirissa conducted by Rotaract Club of University of Moratuwa

Swim or Sink Program: Instructor / Chair Person - Learn to swim program for university undergraduates organized by Rotaract Club of University of Moratuwa

Swim Spark Program: Instructor - Learn to swim program for Leo Club members and university undergraduates organized by Leo Club of Kalubowila

REFERENCES

Mr. Kapila Hettihamu

Chief Risk Officer, Commercial Bank of Ceylon PLC.

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Mr. Jithendra Gunatilake

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