MALKA SAMARAKOON

GRADUATE DIPLOMA IN SOFTWARE ENGINEERING

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About Me

I am a final-year Software Engineering undergraduate at the Institute of Software Engineering (IJSE), passionate about developing modern, responsive, and scalable web applications. I enjoy translating complex problems into efficient, user-friendly solutions and have experience contributing to real-world projects. I am a quick learner, collaborative team member, and highly motivated to continuously grow my technical and professional abilities.

Skill

- Programming: Python, Java, Java EE, Spring Boot, JavaScript, TypeScript, React
- Web Development: HTML, CSS, Tailwind CSS, Bootstrap, JSP
- Databases: MySQL, JDBC, MongoDB
- Cloud & DevOps: Docker
- Tools & Frameworks: Git/GitHub, ModelMapper, JWT, Nodemailer/SendGrid
- Soft Skills: Leadership, Teamwork, Communication, Public Speaking, Problem-Solving, Critical Thinking, Time Management, Adaptability

Extracurricular Activities

- Volunteering: Women Empowerment Volunteer – Neermai.com (2025)
- Innovation: Awarded for Innovative Software Solutions (CodeNexa Team – Innovesta '24)
- Leadership: Deputy Head Prefect (2019–2020), Student Parliament Member (2016), IJSE Student Community Member (2023-2025)

Education

- **Undergraduate in Software Engineering(2023-2025)**
  Institute of Software Engineering (IJSE), Sri Lanka
- **Certificate in Computer Literacy (2023)**
  Open University of Sri Lanka
- **Certificate in English Spoken(2018)**
  Open University of Sri Lanka
- **Python for Beginners certificate(2025)**
  Centre for Open & Distance Learning (CODL), University of Moratuwa, Sri Lanka

- **GCE Advanced Level (2022) , K/A. Rathnayake Central College, Walala**
- Biology (S), Chemistry (S), Agriculture (S), English (S)

- **GCE Ordinary Level (2017) , K/A. Rathnayake Central College, Walala**
- 6 A's, 1 B's, 2C

Projects

Online Course Management System | Spring Boot, Hibernate, MySQL, HTML/CSS/JavaScript

Built a web-based Online Course Management System using Spring Boot, Hibernate, MySQL, and HTML/CSS/JS for course enrollment, materials, assignments, and quizzes. Implemented role-based access control, admin/instructor management, and automated workflows to improve efficiency, accessibility, and data security.

Github

Inventory Management System | Java, SQL, JavaFX, Layered Architecture

Developed a desktop Inventory Management System using Java, JavaFX, and SQL to track stock levels, manage purchase/sales operations, and automate reporting. Implemented a layered architecture (Presentation, Business, Data Access) and a user-friendly interface for modular, maintainable, and efficient inventory management.

Github

Strategic Growth Analysis for a UK-Based E-Commerce Retailer(Group Project) | Python, Pandas, NumPy, Matplotlib, Seaborn

Collaborated in a team of data science consultants to analyze transactional data, identify sales trends, seasonality, and top products, and develop RFM-based customer segmentation. Delivered data-driven visualizations and a business report with actionable recommendations for marketing, inventory, and customer management.

Github

Smart Parking Management System (SPMS) – Microservice-Based Application | Spring Boot, Spring Cloud (Eureka, Config, Gateway), MySQL, Docker

Developed a microservice-based Smart Parking Management System (SPMS) using Spring Boot, Spring Cloud, MySQL, and Docker, enabling real-time parking tracking, reservations, and digital payments. Designed modular services with REST APIs, dynamic service discovery, and centralized configuration to ensure scalability and reliability

Github

Mobile Attendance Tracker – React Native & Firebase | React Native, Firebase (Firestore, Auth, Cloud Functions), FCM, GPS

Developing a mobile application for managing student attendance using QR codes, GPS validation, and device binding. Enables real-time attendance tracking, role-based access for students, lecturers, parents, and admins, and automated notifications. Implementing backend logic with Firebase Cloud Functions, managing data with Firestore, and ensuring secure authentication with Firebase Auth.

Github

References

Mr. Mayuran Varatharajan

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Mr. Prasad Waduge

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