Janithmi Dissanayake
Associate Software Engineer

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About Me

A highly motivated and self-driven software engineer with a solid foundation in Java, JavaScript, and C#, brings a strong analytical mindset and problem-solving skills. Skilled in building secure, scalable, and maintainable software solutions using ASP.NET and MVC Strong foundation in object-oriented programming, design principles, and relational databases (MSSQL Server, Entity Framework). Thrives in Agile environments with strong communication and collaboration skills to drive projects efficiently.

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Experience

Software Engineer Intern - onsite   February 2024 – Aug 2024
MadMobile LK

Contributed to the implementation of the Universal Admin Dashboard of CAKE in both the frontend and backend within an Agile development environment,gaining practical exposure to CI/CD pipelines.

- Used **React** with **Redux** for efficient state management across dashboard modules, improving UI responsiveness and reducing reload times.
- Improved API response times by optimizing the **Backend for Frontend (BFF)** layer in **Node.js**, reducing redundant API calls.
- Utilized **Spring Boot** with **Apache POI** to process and transform Excel files for data migration, streamlining the onboarding of 1,000+ records.
- Analyzed and debugged edge cases to resolve software bugs in both frontend and backend systems.
- Wrote unit and integration tests using **JUnit 5** and **Jest**, helping increase test coverage by 25%.

Education

B.Sc.(Hons.) in Information Technology | CGPA: 3.45   2021 – 2025
University of Moratuwa

G.C.E. Advanced Level - Physical Science Stream   2019
St. Thomas Girls' High School, Matara

Technical Skills

- **Languages:** Java, Python, JavaScript, TypeScript,C#
- **Web Development:** React,Node.js, , SpringBoot,ASP.NET,Tailwind CSS, HTML, XML, JSON, CSS,GraphQL
- **DevOps and API Tools:** Git, BitBucket, Docker, Swagger, Postman
- **Cloud hosting :** AWS EC2
- **Database:** SQL (MS-SQL, MySQL), MongoDB
- **Others:** Data Structures and Algorithms, OOP, Agile (Scrum), SOLID, Design Patterns, Debugging

Research

AI-Driven Educational Solutions for Visually Impaired Students in Sri Lanka

- This research aims to build an AI-driven framework to improve mathematics education for visually impaired students using personalized learning, adaptive Q&A, AI-driven sonification, and real-time 3D shape detection.
- Contributed to training a Graph Attention Network and designing a PMS-based sonification model for graph visualization.
- **Tech Stack:** NumPy, OpenCV, Python, Pandas, Librosa,Random Forest ,FastAPI

Projects

AssetFlow – Enterprise Asset Management Software   **2023**

- Designed and implemented core modules of an Enterprise Asset Management (EAM) system including user management, Facility management, and inventory tracking.
- Built secure and scalable backend services using **C#, ASP.NET MVC**, and applied **object-oriented design principles** to ensure maintainability.
- Developed interactive and responsive front-end components using **React**, enhancing user experience.
- Managed relational data with **MSSQL Server** and applied **Entity Framework Core** for efficient data access.
- **Tech Stack:** C#, ASP.NET MVC, MSSQL Server, Entity Framework Core, React, TypeScript, Bootstrap

Book store application   **2025**

- Developed a backend system for a Bookstore Application using a **microservices** architecture.
- Designed and implemented Order Management, Inventory Management, and Book Management as independent microservices, enabling modular deployment and scalability.
- Developed and consumed **RESTful APIs** for inter-service communication, ensuring loosely coupled architecture.
- Integrated **Apache Kafka** for asynchronous messaging between services, improving system resilience and performance.
- Implemented **API Gateway** for centralized routing, request validation, and security across services.
- **Tech Stack:** Spring Boot, MySQL, MongoDB, Kafka

ExpenseWise – Income and Expense Management System   **2024**

- Designed and implemented a full-stack web application to manage income and expenses with support for dashboards, monthly analytics, and role-based access control (RBAC).
- Built frontend using **React** with reusable components and responsive UI for better user experience.
- Developed backend REST APIs with **Spring Boot**, enabling secure data access and transaction processing.
- **Tech Stack:** React, Spring Boot, MySQL, Docker, AWS

E-Commerce Website   **2023**

- Developed a full-stack E-Commerce web application, delivering a responsive and user-friendly online shopping experience.
- Focused on the front-end implementation of product pages using **React**, ensuring seamless user interaction.
- **Technologies Used:** React, Spring Boot, MySQL

Responsibilities and Achievements

- Hack Moral 5.0 2023 – Organized by INTECS, UOM – 20th place)
- Real Hack 4.0 2023 – Organized by university of Kelaniya – Participant
- Participated in Olympiad Competitions -2015
- Organizing Committee Member of Resume centre 2022 - organized by Rotaract club of University of Moratuwa
- member of Environmental pioneer society of school-Attained the medals upto Rajatha Varna

References

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