RIDMI JAYASEKARA

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Innovative and results-oriented Computer Systems Engineering graduate with a robust academic foundation and extensive hands-on experience in software development, machine learning, artificial intelligence, robotics, and system integration. Proficient in a wide array of programming languages, including PHP, Python, Java, Kotlin, C, CSS, MATLAB, and JavaScript. Passionate about creating impactful solutions and excelling in team-driven, agile environments.

EDUCATION

BSc. in Engineering (Honours) in Computer Systems Engineering

NSBM Green University

Pitipana, Homagama

Graduated with Second Class Upper Division
GPA : 3.59/4.0

PROFESSIONAL EXPERIENCE

Fentons Information Technology   **Nov 2023 - Present (1 yr 3 mo)**

Associate Software Engineer - Research & Development

Associate Software Engineer at Hayleys Fentons Limited with a proven track record of developing robust web applications tailored to diverse business requirements. Proficient in full-stack development, combining expertise in front-end and back-end technologies to create user-centric, scalable, and efficient solutions. Experienced in database design and management, ensuring secure and optimized data handling for dynamic applications.

Hayleys Fentons Limited   **Aug 2023 - Oct 2023 (3 months)**

Software Engineer (Intern) - Research & Development

Completed a Full-Stack Developer internship, where I developed and implemented software systems to optimize workflows for in-house operations and external clients. Gained practical experience in database design, system architecture, and end-to-end development processes. Managed backend development utilizing PHP, Python, and .NET, while creating responsive and user-friendly frontend interfaces using HTML, JavaScript, CSS, and jQuery.

Vega Innovations   **Apr 2022 - Aug 2022 (4 months)**

Engineering Intern - Power Electronics Division

Engineered a step-down converter with precise calculations, schematic design, and PCB layout, optimizing power and signal paths for functionality. Conducted in-depth research on Vehicle-to-Grid (V2G) technology and delta-sigma modulation techniques, focusing on their applications and impact in energy systems and advanced signal processing. Skilled in component selection, layout optimization, and documentation, with a proven ability to collaborate across teams to deliver innovative solutions.

AREA OF EXPERTISE

- Networking and Security
- System Maintenance and Troubleshooting
- Web Development
- Full Stack Applications
- Database Management
- Researching

RESEARCH & PROJECT EXPERIENCE

- **Intelligent Chatbot to Optimize University Communication Channels Integrating Text Data Mining**

Designed and implemented an intelligent chatbot to optimize university communication channels using Python, Rasa, and text data mining techniques. The chatbot was developed with a robust Natural Language Understanding (NLU) model and tested rigorously for reliability and effectiveness. Achieved significant improvements in operational efficiency and user experience by automating routine inquiries, thus reducing the administrative burden on university staff. The integration of text data mining allowed the chatbot to provide comprehensive answers to complex queries, enhancing the decision-making process for students regarding their academic and career paths

- **Debtor Management System for Hayleys Fentons Ltd**

Designed and developed a robust Debtor Management System to streamline the tracking and management of debtors across company divisions. Leveraged PHP for backend logic, MySQL for database management, and HTML, CSS, and JavaScript for an interactive frontend. Implemented a comprehensive dashboard displaying real-time metrics, including total debtors, promise-to-pay values, invoices, customers, and debtor summaries for each division. Enabled division-specific data visualization with dynamically updated tables,

- **Incentive Management System for Hayleys Fentons Ltd**

Developed an Incentive Management System for the finance department to automate the calculation and display of incentives based on salesperson performance. Built with PHP, MySQL, HTML, CSS, and JavaScript, the system features a dynamic dashboard, automated calculations, role-based access, and customizable reports, ensuring efficient data management and decision-making.

- **Dialog Billing System for Hayleys Fentons Ltd - Ongoing Project**

A web-based Mobile Management System using PHP, MySQL, HTML, CSS, and JavaScript to efficiently track and manage company-issued SIMs and packages. The solution provides features such as excess usage tracking, user management, and real-time SIM package monitoring. It offers a centralized dashboard, interactive UI, and role-based access to streamline operations for the finance and HR departments, ensuring proactive management and secure access.

- **Supercar Store Platform**

Built a comprehensive web-based platform for 'Luxury Rides,' a supercar store, leveraging React, Node.js, Express.js, Sequelize, MySQL, and AWS. The platform includes a client-facing website for browsing available cars and specifications, an email inquiry system, and a management system for CRUD operations on car listings.

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  https://ridmi-portfolio.vercel.app/

REFEREES

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