RASHMI JAYASEKARA

+94 76 150 6427 ✉ rashmijayasekara181@gmail.com 🌐 Portfolio ⭘ GitHub in LinkedIn

Results-driven Computer Systems Engineering graduate with a strong academic background and hands-on experience in software systems, machine learning, artificial intelligence, robotics, and system integration. Proficient in multiple programming languages, including PHP, Python, Java, Kotlin, Flutter, Dart, VB.NET, C, MATLAB and JavaScript. Committed to delivering impactful solutions while excelling in collaborative and dynamic environments.

EDUCATION

BSc. in Engineering (Honours) in Computer Systems Engineering

NSBM Green University

Pitipana, Homagama

Graduated with First Class Honours
GPA : 3.71/4.0

RESEARCH INTERESTS

Networking and Communication Systems

Machine Learning and Deep Learning

Advanced Computing Architectures

Internet of Things (IoT) Applications

Cyber-Physical Systems and Robotics

Cybersecurity and Cryptography

Intelligent Control Systems

Artificial Intelligence

PROFESSIONAL EXPERIENCE

University of Ruhuna   **May 2025 - Present**

Temporary Demonstrator - Department of Computer Science

Assisting undergraduate students in practical and theoretical modules related to computer science, including programming, databases, and software engineering.

Hayleys Fentons Limited   **Aug 2023 - Apr 2025**

Associate Software Engineer - Research & Development

An Associate Software Engineer at Hayleys Fentons Limited, responsible for developing both web and mobile applications to meet diverse business needs. Primary focus is mobile development for cross-platforms, utilizing Flutter (Dart) and MAUI (.NET). In addition, I expertise in database management, designing and integrating efficient, secure databases for dynamic applications.

Hayleys Fentons Limited   **Apr 2022 - Oct 2022**

Software Engineer (Intern) - Research & Development

Interned as a Full-Stack Developer, where I developed and implemented various software systems for in-house operations and external companies to optimize workflows. During this role, I gained hands-on experience in database design and system architecture. I managed backend development using PHP, Python, and .NET, while also building responsive frontend interfaces with HTML, JavaScript, CSS, and jQuery.

AREA OF EXPERTISE

- Networking and Security
- System Maintenance and Troubleshooting
- Web Development
- Mobile Development
- Database Management
- Researching

RESEARCH & PROJECT EXPERIENCE

- **Face Guard Attendance Monitoring Systems for Universities - Final Year Research Project 2024**

Designed and implemented a face recognition-based attendance monitoring system using Python, dlib, and OpenCV. Achieved over 85% accuracy through real-time face detection and recognition algorithms. Conducted extensive evaluations to ensure reliability and usability, demonstrating significant improvements in efficiency and accuracy for attendance management in educational and professional environments.

- **Medical Laboratory Management System for Medisense Laboratory Pvt Ltd - Third Year Project**

Designed and developed a comprehensive Medical Laboratory Management System, streamlining lab operations and data management. Utilized React for the front end and Node.js with Express and Sequelize ORM for the back end, adhering to the MVC architecture. Led the UI/UX design process using Figma, creating intuitive and user-friendly interfaces to enhance user experience.

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

Developed and implemented an HRIS Management System for Hayleys Fentons Ltd, streamlining employee management processes. The system, now actively used by company employees, facilitates efficient handling of HR operations, including employee data, leave application, attendance, and performance tracking, improving overall organizational efficiency.

- **Customer Relation Management System for Cinec University**

Designed and developed to manage and streamline interactions with students, parents, staff, and other stakeholders. The system aims to improve communication, enhance user experience, and provide efficient tools for administrative purposes.

- **Cash App for Hayleys Fentons Ltd - Ongoing Project**

A cross-platform mobile application using Flutter and Dart to streamline financial transactions and manage customer payments. The app enables users to request cash advances and reimbursements without the need for manual documentation, enhancing efficiency and user experience. The app integrates secure payment processing and real-time transaction tracking.

- **Gate Pass Management System for Hayleys Fentons Ltd**

A web-based solution designed to simplify and automate the process of creating, approving, and managing gate passes. The system enhances security and operational efficiency by allowing users to generate itemized gate passes with real-time notifications for approvals and updates.

- **Explore more projects on my portfolio website for a broader view of my work.**
  https://rashmi-portfolio-three.vercel.app/

REFEREES

Dr. Chandana Perera, Dean, Faculty of Engineering, NSBM Green University, Sri Lanka
Office : +94 11-5446045, Mobile : +94 71-0655450
Email : dean.foe@nsbm.ac.lk, chandana.d@nsbm.ac.lk

Dr.Mohamed Shafraz, Head of the Department of Software Engineering and Information Systems
Faculty of Computing, NSBM Green University, Sri Lanka
Office : +94 11 544 5000, Mobile : +94 773512845
Email : shafraz@nsbm.ac.lk