

Gawsan Raveenthiran

Senior Software Engineer

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Profile

As a skilled Software Engineer with a Second-Class degree in Software Engineering from the Sri Lanka Institute of Information Technology (SLIIT) and three years of professional experience, I specialize in programming, problem-solving, and leading cross-functional teams to deliver impactful software solutions. My efforts have consistently resulted in efficiency gains exceeding 30% and the timely completion of projects with high-quality code. Currently pursuing an MSc in Computer Science with a focus on Software Architecture at the University of Moratuwa, I bring an agile mindset and a passion for tackling complex challenges. I am eager to leverage my technical expertise and leadership skills to drive innovation and contribute to dynamic, high-performing teams working on transformative projects.

SOFTWARE ENGINEER | IFS R&D | DECEMBER 2024 – PRESENT

- Spearheaded the research, development, and successful integration of **Microsoft Teams** features into **enterprise applications**, enhancing collaboration capabilities and user engagement.
- Designed and implemented scalable solutions leveraging **React**, **Redux**, and **TypeScript**, resulting in a 25% improvement in application performance and maintainability.
- Integrated **third-party APIs** to streamline functionality, reducing development time by 20% and ensuring seamless user experiences across platforms.
- Developed and optimized **backend** systems to improve data processing efficiency by 30%, ensuring robust security, scalability, and seamless integration with frontend components.

ASSOCIATE SOFTWARE ENGINEER | IFS R&D | JULY 2023 – NOVEMBER 2024

- Engineered Outlook integration for contact management, enabling seamless synchronization with IFS Cloud using React and SQL, enhancing operational efficiency.
- Built dynamic React components with Redux Toolkit for efficient state management and optimized performance through code-splitting.
- Developed responsive, user-centric UIs, integrated i18n for seamless localization, and ensured robust quality through Jest testing and Sonar Cloud analysis.
- Streamlined deployments using Docker, ensuring scalability and maintaining high system availability.

SOFTWARE ENGINEER INTERN | IFS R&D | JULY 2023 – NOVEMBER 2024

- Developed and enhanced pet projects using IFS technology, implementing new features to align with functional requirements and improve usability.
- Resolved technical issues and fixed bugs, ensuring seamless functionality and maintaining high-quality software standards.
- Applied Chaos Engineering principles to identify system vulnerabilities, enhance resilience, and improve overall performance under real-world conditions.

Education

MSC IN COMPUTER SCIENCE SPECIALISING IN SOFTWARE ARCHITECTURE | READING | UNIVERSITY OF MORATUWA, SRILANKA

BSC (HONS) IN INFORMATION TECHNOLOGY, SPECIALIZING IN SOFTWARE ENGINEERING | JULY 2024 | SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Projects

E-LEARNING FOR SPECIAL NEEDS — WEB-BASED SYSTEM (RESEARCH PROJECT)

Technologies: ML & AI, Python, CNN, RNN, NLP, React

Developed a system to identify student stress using facial expressions, voice analysis, and messaging patterns, with recommendations for stress reduction.

ONLINE TRIP ADVISOR SYSTEM — WEB-BASED SYSTEM

Technologies: React JS, Node JS, Express JS, jQuery, MongoDB, Postman API, AWS, Docker

Developed a comprehensive online trip advisor system with an admin panel for managing travel data, client-side features for user interaction, and robust API integrations.

MOBILE APPLICATION FOR ONLINE TICKET RESERVATION — APP

Technologies: Java, Firebase

Developed a mobile application for online ticket reservation with integrated features for driver profiles, leave management, emergency calls, and salary calculation.

E-COMMERCE IOS APPLICATION — MOBILE APP

Technologies: Swift, Map Technology, Natural Language Processing, Backend Integration

Developed an iOS eCommerce application with integrated map technology for location-based services and Natural Language models for enhanced user interaction.

Skills & Abilities

- **Languages:** JavaScript, TypeScript, Python, Java, SQL, C#
- **Tech:** React, Redux, Node.js, Express, MongoDB, AWS, Docker, CI/CD
- **Testing:** Jest, Sonar Cloud | **Architecture:** Microservices, REST APIs
- **ML & AI:** Python, NLP, RNN, CNN | **Agile:** Scrum, Kanban
- **Security:** Best practices for app security & data protection

Certification and Achievements

- Completed React Basics & Advanced (Meta), Android App Development Specialization, GIT (Atlassian/Google), Agile with Jira (Atlassian), Introduction to Microsoft Azure (Microsoft).
- Successful Hacktoberfest Contributor, HackerRank SQL (Gold), Java (Silver), C++ (Silver) Badge Holder.