Buwaneka Senarathne

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<u>Github</u>   <u>LinkedIn</u>   <u>Medium</u>   <u>Developer portfolio</u>

Software Engineering Undergraduate

Aspiring Software Engineering student with a solid Computer Science foundation and teamwork skills. Proficient in Node.js, React.js, and JavaScript. Focused on building scalable, performant, and secure systems with modern web technologies.

Education

BSc (Hons) in Information Technology Specialising in Software Engineering   **2023 - 2026**
Sri Lanka Institute of Information Technology
CGPA - 3.1

BSc Engineering (Hons) in Mechanical Engineering (Mechatronics Specialisation)   **2021 - 2023**
Sri Lanka Institute of Information Technology

G.C.E. (A/L) Mathematics stream   **2020**
Dharmaraja College, Kandy
Three Credit Passes

Work experience

Mechatronics Engineer (internship) | Airport & Aviation Services Sri Lanka   **2023**
- Developed a 3D model of a two-way conveyor belt system using SolidWorks to enhance baggage handling efficiency.

Freelance video editor | Fiverr Premiere Pro, After Effects, Photoshop   **2022 -2023**
- Completed 20+ video/motion graphics projects.

Relevant Projects

Property management system (group)| <u>GitHub</u> | NodeJS , Mongodb , ReactJS, ExpressJS, JWT authentication   **2024**
- A full-stack web application for a boarding places listing platform.
- Implemented JWT authentication for secure user access.
- Designed a responsive, user-friendly interface with React.

Highlight Hunt - Sequence Memory Game | <u>GitHub</u> | NodeJS , Mongodb , ReactJS, Tailwind, OpenAi API   **2025**
- A dynamic memory game with progressive grid difficulty (3x3, 4x4, 5x5).
- Implemented quick-flash patterns and real-time score tracking with a global leaderboard.
- Created smooth animations and real-time score tracking for an immersive user experience.
- Integrated performance analysis using OpenAI's API to evaluate correct highlights, accuracy, completion time, and score.

Get It Done - Task management application | <u>GitHub</u> | Kotlin   **2024**
- Developed in Kotlin with Android Studio, targeting API level 35.
- Managed app state with SharedPreferences for persistent data storage.
- Built a custom task timer with CountDownTimer for accurate time tracking.

Food ordering & delivery management system (group)| MERN stack , JWT authentication, Docker , Kubernetes   **2025**
- Architected microservices-based platform with 4 independent services and Docker/Kubernetes deployment
- Built real-time order tracking system using Google Maps API and Geocode API for live location monitoring
- Integrated multiple payment gateways (Stripe, PayHere)
- Implemented containerized deployment using Docker and Kubernetes with service orchestration and API Gateway integration
- Created role-based user management system supporting 4 user types (Admin, Customer, Restaurant, Rider) with authentication

Volunteering

Faculty of Engineering Media Club | 2021 - 2023
- Marketing Team - SLIIT's Got Talent (2022)

Leo Club of SLIIT | 2021 - 2022
- Design team

SLIIT FOSS Community | 2025

Skills

- Programming languages: Javascript , Java , Python Kotlin, PHP , C , C++, R (basic)
- Frontend: ReactJS
- Backend: NodeJS
- Database: MongoDB, mySQL
- UI/UX: Figma, Photoshop
- Testing: Jest, Postman, Selenium
- DevOps & Containerization: Docker, Kubernetes