

Eldeniye Medagedara Ravindu Sathsara Jayaweera

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Professional Summary

Software Engineer with experience in full-stack web development, applied artificial intelligence, and scalable system design. Proven ability to deliver production-ready applications using modern frameworks and industry-standard development practices. Strong background in backend development, frontend integration, database design, and performance optimization.

Technical Skills

- **Programming Languages:** JavaScript, PHP, Python, SQL, HTML, CSS
- **Programming Concepts:** OOP, CI/CD Pipelines, MVC Architecture
- **Frameworks:** React.js, Node.js, Express.js, Laravel, CodeIgniter
- **Databases:** MySQL, PostgreSQL
- **AI / Data:** Machine Learning (Scikit-learn), NumPy, Pandas, Matplotlib
- **Tools:** Git, REST APIs, Linux, Docker (basic), VS Code, Figma
- **CMS:** WordPress

Industry Experience

Freelancing (Fiverr Platform and Local Clients)

Freelance Software Engineer

Jan 2021 – Present

- Delivered custom software and web-based solutions for international and local clients.
- Managed full lifecycle from requirements to deployment and maintenance.

Enigma Solutions (Pvt) Ltd, Colombo, Sri Lanka

Associate Software Engineer

Jan 2025 – Jun 2025

- Developed and maintained enterprise-level web applications using full-stack technologies.
- Designed and implemented backend REST APIs and database schemas.
- Integrated frontend components with backend services following clean architecture principles.
- Participated in testing, debugging, and performance optimization.

Intern Software Engineer

Jul 2024 – Jan 2025

- Assisted in backend logic implementation and frontend feature development.
- Worked on database queries, bug fixing, and application performance improvements.

Academic & Teaching Experience

University of Sri Jayewardenepura, Sri Lanka

Temporary Instructor

Jun 2025 – Present

- Conducted laboratory sessions focused on practical software engineering.
- Mentored undergraduate students in full-stack and AI-based projects.

Subjects taught:

- Object-Oriented Programming
- Full Stack Development (HTML, CSS, JavaScript, PHP, Node.js)

- Data Structures and Algorithms
- Artificial Intelligence and Machine Learning
- Human Computer Interaction

Visiting Instructor (M.Sc.)

Jun 2025 – Present

Postgraduate academic facilitation in M.Sc in Data Science and Artificial Intelligence course.

Visiting Instructor (M.Sc.)

Jun 2025 – Present

Postgraduate academic facilitation in M.Sc in Computer Science Course.

Education

University of Sri Jayewardenepura, Sri Lanka

- B.Sc (Hons) in Computer Science, 2025

British Computer Society (BCS), UK

- Professional Graduate Diploma in IT — 2023
- Diploma in IT — 2021
- Certificate in IT — 2020

Projects

- CRM System - Company Product - Developed New Features and Done Customizations
Technologies Used: Laravel, Bootstrap, MySQL, Linux, OREL Cloud, git, Bitbucket
- ERP System - Company Product - Developed New Features and Done Customizations
Technologies Used: CodeIgniter, MySQL, git, Bitbucket
- Full Stack Web App for Goal Management
Technologies Used: React.js, Express.js, Node.js, MongoDB, REST API, git
Project Repository
- Full Stack Blog Application - Personal Project
Technologies Used: Laravel, TailwindCSS, JavaScript, MySQL
Project Repository
- Job Listings Web App - Personal Project
Technologies Used: React.js, JSON Server, git
Project Demo
Project Repository
- Text Summarizer using Hugging Face API - - Personal Project
Technologies Used: Express.js, Node.js, HTML, CSS, REST API
Project Demo

Publications

- Jayaweera, E. M. R. S., Harshani, W. G. L., De Silva, P. R. S., & Fernando, O. N. N. (2025). *An Interactive Social Robotic to Explore Effective Humor by Blending Speech Disfluencies as a Learning Companion*. International Journal of Research in Computing (IJRC). (Accepted)

- Harshani, W. G. L., Jayaweera, E. M. R. S., Kulathilaka, D. P. G. A. H., Malinda, R. M. D. D., Theekshan, H. K. S., & De Silva, P. R. S. (2025). *Smart Dance Shoes with Machine Learning Powered Light and Motion Synchronization*. Vidyodaya Journal of Science (VJS). (Published) <https://doi.org/10.31357/vjs.v28i02.8722>
- Harshani, W. G. L., Jayaweera, E. M. R. S., Wijesinghe, A. P., Fernando, O. N., & De Silva, P. R. S. (2025). *The Evaluation of Gym Workouts and Generating Live Feedback through an Intelligent Bot*. Vidyodaya Journal of Science (VJS). (Submitted)
- Chathuranga, A. M. K., Harshani, W. G. L., Jayaweera, E. M. R. S., & De Silva, P. R. S. (2025). *The Effect of Self-Assessment Strategies through Social Robotics on Children's Motivation and Performance in the Context of Programming Language*. Vidyodaya Journal of Science (VJS). (Submitted)
- Harshani, W. G. L., Jayaweera, E. M. R. S., Athukorala, V. S., Kulathilaka, D. P. G. A. H., Malinda, R. M. D. D., Theekshan, H. K. S., & De Silva, P. R. S. (2025). *Smart Dance Shoes with Machine Learning Powered Light and Motion Synchronization*. International Conference on Innovation and Emerging Technologies (ICIET), Abstract Publication. (Accepted)
- Harshani, W. G. L., Jayaweera, E. M. R. S., Wijesinghe, A. P., Fernando, O. N. N., & De Silva, P. R. S. (2025). *Vision-Based AI System for Real-Time Motion Evaluation and Feedback in Fitness Training*. International Conference on Innovation and Emerging Technologies (ICIET), Abstract Publication. (Accepted)

Languages

Sinhala (Native), English (Fluent)

References

- Prof. P. Ravindra S. De Silva
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