

WASANA WEERAKON

Computer Science Undergraduate

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SUMMARY

Motivated Final-Year Computer Science Undergraduate with a strong foundation in Software Quality Assurance principles. Proficient in bug identification, test case design, and analytical problem-solving. Experienced in executing functional testing to ensure efficient and high-quality software delivery.

EXPERIENCE

Information and Communication Technology Technician (Internship)

Department of Agrarian Development

📅 01/2022 - 07/2022 📍 No 42, Sri Marcus Fernando Mawatha, P.O. Box 537, Colombo 07

- Ensured record accuracy, maintained document control, and delivered clear QA reports and presentations.

EDUCATION

Bachelor of Science Honors in Computer Science and Technology

Uva Wellassa University of Sri Lanka

📅 2022 - Present 📍 Badulla, Sri Lanka

- Related Coursework: Software Quality Assurance, Human-Computer Interaction, Software Engineering, System Analysis and Design, Database Management, Enterprise Resource Planning

CGPA

3.68 / 4.0

RESEARCH PROJECT

Energy-Optimized Neural Computing on ARM Architecture Using Spiking Neural Networks

📅 2025 - Present 📍 Uva Wellassa University of Sri Lanka

Technologies: Deep Learning, Nvidia Jetson Nano, Python

- Implement and investigate Spiking Neural Networks (SNNs) on ARM-based embedded systems for energy-efficient AI solutions.
- Evaluate performance, scalability, and efficiency compared to traditional Artificial Neural Networks (ANNs).
- Explore optimization techniques and contribute to the development of low-power embedded and edge AI systems.

PROJECTS

Seagrass Sri Lanka

📅 05/2025 - 09/2025

Technologies: React, Django, Flask, PostgreSQL, Python, Azure OpenAI, Unity

- Developed a web platform for seagrass conservation, performing test case design, functional testing, and bug identification to ensure reliable and high-quality system features while contributing to full-stack development.

Pet Adoption System

📅 06/2024 - 08/2024

Technologies: HTML, CSS, JavaScript, PHP, MySQL

- Implemented a pet adoption system with user registration, pet listings, and adoptions featuring secure logins and responsive UI. Designed and executed test cases, performed functional testing, and identified bugs to enhance system reliability, UX, and authentication.

estateEase

📅 04/2024 - 07/2024

Technologies: HTML, CSS, JavaScript, PHP, MySQL, Bootstrap

- Constructed a real estate web platform with property browsing, bidding, and wishlist features. Performed test case design, functional and end-to-end testing, and bug identification to ensure high-quality performance.

LearnMate

📅 Present

Technologies: React, Node.js, Express.js, MongoDB, Postman

- Develop a MERN-based User Management System with CRUD operations. Create test cases and conduct functional testing with Postman, identify and resolve bugs, and improve feature reliability.

SKILLS

Technical Skills

Manual Testing, Functional Testing, Test Case Design, Bug Tracking, Selenium, Postman, Jira, Agile, Scrum, Git, GitHub, HTML, CSS, JavaScript, React, Tailwind CSS, Node.js, PHP, Python, Django, Java, C, MySQL, PostgreSQL, MongoDB

Soft Skills

Leadership, Communication, Public Speaking, Time Management, Problem Solving, Critical Thinking, Teamwork

LANGUAGES

English, Sinhala

CERTIFICATIONS

Introduction to Software Quality Assurance

University Of Moratuwa

Quality Assurance (QA) - Techniques and Methodologies

Alison

Introduction to Jira

Simplilearn

KEY ACHIEVEMENTS

Dean's List

Recognized on Dean's List for academic excellence in Computer Science.

SLASSCOM Women in Tech 3.0 Conference 2025

Represented UWU at LSEG, engaging with industry leaders and gaining insights into emerging tech trends.

Dean's Appreciation – 2025 UWU VR Project

Received an appreciation letter from the Dean, Faculty of Applied Sciences, UWU for contributions to the 2025 Virtual Reality Project.

LEADERSHIP AND INVOLVEMENTS

Secretary, FOSS Community UWU

📅 2025 - Present

Managed communications, handled reports, and coordinated community events and activities.

Secretary, IEEE IMPETUS Research Symposium UWU

📅 2025 - Present

Coordinated communications, prepared reports, and supported event planning and execution.

Secretary Team Lead, IEEE Open Day 2025 UWU

📅 2025

Managed documentation, scheduling, and event coordination for IEEE Open Day 2025.

Executive Member, Robotics and Automation Society UWU

📅 2024

Contributed to creating and reviewing technical and creative content for the society.

PS Team Manager, AIESEC UWU

📅 2024

Led the Project Support team to ensure smooth coordination and successful execution of AIESEC initiatives.

REFERENCES

Dr. K. P. P. S. Pathirana

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Department of Computer Science and Informatics,
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