

Geeth Liyanage

COMPUTER SCIENCE UNDERGRADUATE

Matara, Sri Lanka

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Profile

I'm a highly motivated Computer Science and Technology undergraduate at Uva Wellassa University of Sri Lanka, aspiring to build a career as a Software Engineer, QA Engineer, and IT Project Manager. I bring a strong technical foundation in software development along with hands-on experience in both manual and automated testing, enabling me to contribute effectively across the software development lifecycle and coordinate between technical teams and project goals. I am passionate about delivering secure, high-quality solutions on time and within scope. A collaborative team player with strong communication and organizational skills, I am committed to continuous learning and professional growth in the IT industry.

Education

Uva Wellassa University of Sri Lanka

B.Sc. (HONS) IN COMPUTER SCIENCE & TECHNOLOGY, GPA: 3.56/4.00

Sri Lanka

2020 – 2026 (Expected)

Researches

Using Digital Image Processing and Machine Learning with UV Fluorescence Imaging to Detect and Quantify Aflatoxin Levels in Corn Kernels

July 2025 – Present (Ongoing)

- Researching how UV fluorescence image processing combined with machine learning models can be used not only to detect aflatoxin-infected corn kernels but also to accurately predict aflatoxin concentration levels.
- Developing a web app enabling farmers and sellers to quantify aflatoxin levels in corn kernels.
- Technologies:** Python, Deep Learning, Image Processing.

Projects

Niyo Salon - Salon Management Platform (Frontend /Backend)

June 2025 – August 2025

- Customer-facing booking: calendar-aware appointment booking with time-slot capacity control, OTP phone verification, and SMS workflows for OTPs/confirmations).
- Admin and platform features: admin dashboard to confirm/cancel appointments and manage salon closures (auto-cancels affected bookings and notifies customers), gallery/blog modules, JWT-secured auth, and a Spring Boot + MySQL backend powering REST APIs.
- AI-powered features: automated blog content generation and an intelligent customer reminder system for upcoming appointments.
- Technologies used:** React (TypeScript), Tailwind CSS, react-datepicker, lucide-react, Vite, Node/npm; Spring Boot, Maven, JPA/Hibernate, MySQL, JWT-based auth, REST APIs, Notify.lk/Twilio SMS integration.

DesktopPet — Lightweight Python desktop companion (tkinter, Pillow) with animated pets, reminders, health tips.

October 2025 – November 2025

- Built DesktopPet, a Windows desktop companion app in Python (3.10) using tkinter and Pillow to show animated GIF pets with drag, show/hide, and size controls.
- Implemented reminders (calendar + time picker) and periodic health tips (integrates MyHealthFinder API + local tips).
- Hardened UX: fixed modal/grab issues so reminder dialogs and controls are responsive; added fallback date entry when tkcalendar is unavailable.
- Packaged a single-file, windowed EXE with PyInstaller and produced a professional Inno Setup installer (desktop shortcut, start-on-login option, embedded app icon).
- Technologies used:** Python.

Exchanza - Shopping, bidding, and thrifting platform

September 2024 – November 2024

- Designed and developed a comprehensive web platform integrating online shopping, bidding, and thrifting features, enabling users to buy and sell clothing while enhancing the overall shopping experience through interactive and cost-effective options.
- Implemented user authentication, secure payment gateway, and shopping, bidding, and thrifting management features.
- **Technologies used:** PHP, HTML, CSS, MySQL, JavaScript, GitHub.

Smart Energy-Aware Workspace Monitoring and Control System

November 2025 – Present (Ongoing)

- Designed and developed an IoT-based system using ESP32 and sensors to automate energy control in workspaces.
- Implemented real-time monitoring of temperature, humidity, brightness, and power usage with cloud-based data storage.
- Created system architecture, simulations, and a working hardware prototype to reduce energy wastage and improve efficiency.
- Built a full-stack web dashboard for live data visualization and remote device control.
- **Technologies used:** C++, React, Node.js, Arduino, MongoDB.

Skills

Programming Languages Python, Java, JavaScript, C, C++, PHP

Frontend Development HTML, CSS, React, Bootstrap

Backend Development Spring Boot, PHP

Database MySQL

Testing Tools Postman

Other Tools Git, Inno Setup Compiler, Jupyter Notebook

Soft Skills Problem-Solving, Teamwork, Adaptability, Critical thinking

Certifications

Introduction to AI	Google Career Certificates	Nov 2025
Maximize Productivity With AI Tools	Google Career Certificates	Nov 2025
Docker Foundations Professional Certificate	LinkedIn Learning	Nov 2025
Introduction to DevOps	IBM	Nov 2025

Achievements

3rd Place	Inter Faculty Karate Tournament	2024
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Volunteering and extracurricular activities

Coordinator	CST LAN Challenge	2022
Team Member	Inter University Karate Team	2024
Committee Member	IEEE RAS Chapter	2024

Languages

English Fluent

Sinhala Native

Tamil Intermediate

References

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