PUBUDU WIJESUNDARA

Quality Engineering Intern

📞 +94 71 032 0357 • ✉ pubuduwijes@gmail.com • 📍 Nittambuwa, Sri Lanka

Portfolio | Blog | LinkedIn | GitHub

PROFILE

Driven Computing Undergraduate with strong foundations in software engineering and a growing specialization in Quality Engineering, including manual testing, API testing, test case design, debugging, and defect reporting. Skilled in Python, JavaScript, and QA tools, with hands-on experience validating real-world web and mobile applications. Comfortable working in cross-functional teams, analyzing requirements, and ensuring product quality throughout the SDLC. Passionate about building reliable systems, improving user experience, and contributing to high-quality product delivery.

EDUCATION

BSc. Honours in Computing & Information Systems   Expected 2027
Sabaragamuwa University of Sri Lanka   2023 - Present

Diploma in Graphic Design   2021 - 2022
design.lk, Kiribathgoda, Sri Lanka

EXPERIENCE

Associate Image Processor   Aug 2022 - Dec 2022
OREL IT   *Kadawatha, Western Province, Sri Lanka*

- Ensured high accuracy and consistency in image tagging and label verification for computer vision datasets.
- Collaborated with quality control teams to maintain data integrity and meet strict production deadlines.

SKILLS

Quality Engineering Skills	Manual Testing, Functional & Non-functional Testing, API Testing (Postman), Test Case & Test Plan Design, Requirement Analysis, Defect Reporting (GitHub Issues / Trackers), Test Automation (Python & JavaScript), Debugging & Troubleshooting, SDLC, STLC, CI/CD
Languages & Markup	HTML, CSS, JavaScript, Python, C, Java, SQL
Frameworks & Libraries	React.js, React Native, Tailwind CSS, Django, Django Rest Framework, Next.js
Tools & Platforms	Git, GitHub, Postman, Docker, Ansible, Vercel, Supabase, AWS
Database & Storage	PostgreSQL, MySQL, SQLite, MongoDB, Weaviate (Vector DB)
Operating Systems	Linux (Ubuntu, Mint, Fedora, CentOS, Arch), Windows, macOS
Soft Skills	Teamwork, Time Management, Leadership, Effective Communication, Critical Thinking

PROJECTS

GPA Calculator Web App | Personal Project (2025) ⭘ | 🔗

- Developed a responsive GPA calculator that computes GPA based on course details, with data persistence handled through Local Storage.
- **Tech Stack:** React, Vite, Tailwind CSS, Local Storage, Vercel
- Performed UI testing and regression testing to ensure user-friendly interactions and no breaking changes occurred.

AI-Based Sexual and Wellness Healthcare Assistant | Capstone Project (2025) ⭘

- Built an AI-powered chatbot to assist with sexual and OB/GYN health queries.
- **Tech Stack:** React Native, Python, Django, Django Rest Framework, PostgreSQL, OpenAI API, Docker, Weaviate
- **My Contribution:** Led backend and AI module integration, configured Docker environment, and managed database-API connectivity for intelligent query responses.
- Performed API testing for the backend endpoints, ensuring consistent request/response formats and latency checks.

MediTrack SUSL - University Medical Center System | Group Project (2025) ⓖ

- Developed a Laravel-based medical management system with a dynamic dashboard, real-time MySQL data, and custom Bootstrap UI styled using SASS and Webpack. Added global PDF receipt generation and improved dashboard analytics.
- **Tech Stack:** Laravel, MySQL, Bootstrap, SASS, Webpack
- **My Contribution:** Led dashboard and backend integration, enhanced UI/UX, implemented global PDF features, fixed data logic, and supported code reviews and PR merges.
- Tested dashboard analytics, database-driven forms, and role-based access features.

Needalyze - Digital Insurance Need Analysis | Group Project | Ongoing (2025) ⓖ | 🔗

- Developing a web-based system to digitalize the SLIC Need Analysis Form for advisors and customers. Features include advisor dashboards, automated calculations, multi-language support, and secure online form submissions to reduce manual errors and improve accessibility.
- **Tech Stack:** Next.js, Tailwind CSS, ShadcnUI, Supabase, Zod, React Hook Form
- **My Contribution:** Frontend development, integrated authentication (Register/Login pages), implemented form data persistence using Context API + Local Storage, and connected profile management to the backend.

ACHIEVEMENTS

Merit Award - NetCom 2025: Finalist in the flagship competition under SLIIT Codefest. 🔗

Top 10 Finalist - IEEE Innovation Nation Sri Lanka (INSL) 2024: Represented Sabaragamuwa Province. 🔗

Semifinalist - HackVenture 1.0 (2024): National hackathon organized by AIESEC, University of Kelaniya. 🔗

Semifinalist - HackX 8.0 (2023): Inter-university startup challenge organized by the Department of Industrial Management, University of Kelaniya. 🔗

CTF Participant – Manthra (2023): CTF Competition hosted by IEEE Computer Society, NSBM Green University. 🔗

EXTRACURRICULAR ACTIVITIES

- **STEMUp Education Foundation (2024/25):** Conducted CodeClub sessions at Rathnapura Public Library, teaching foundational coding skills to local students with hands-on practicals. 🔗
- **Program Team Lead - SabraExtreme 3.0 (2025):** Organized by the IEEE Student Branch of SUSL. 🔗
- **Organizing Committee - IEEE Day 2024:** Served as a Design Team Member.
- **Program Team Member - CodeQuest 1.0 (2024):** Organized under the IEEE Student Branch, SUSL.
- **Volunteer Positions:** Society of Computer Sciences SUSL, IEEE Student Branch SUSL, IEEE Women in Engineering (WIE) SUSL (2024/25).

CERTIFICATES & CERTIFICATIONS

Aviatrix Certified Engineer Multicloud Network Associate 🔗

Amazon Q Developer Knowledge Badge Readiness Path 🔗

Getting Started with DevOps on AWS 🔗

AWS Command Line Interface (CLI) Basics 🔗

Advanced Testing Practices Using AWS DevOps Tools 🔗

REFERENCES

Mrs. R.M.K.K. Wijerathna
Probationary Lecturer, Faculty of Computing
Sabaragamuwa University of Sri Lanka
kwijerathna@foc.sab.ac.lk
+94 78 723 3899

Mr. T.D.M. Perera
Associate Software Engineer
hSenid Mobile Solutions (Pvt) Ltd
t.dilshanmperera@gmail.com
+94 76 666 1780