

# PUBUDU WIJESUNDARA

Software Engineer Intern

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[Portfolio](#) | [Blog](#) | [LinkedIn](#) | [GitHub](#)

## PROFILE

Motivated Computing Undergraduate specializing in Full-Stack Development, with strong skills in Python, Django, JavaScript, and PostgreSQL. Experienced in building scalable, user-focused web applications and applying modern UI/UX principles. Proficient in Git, Docker, and Linux, with hands-on exposure through academic work, personal projects, hackathons, and volunteer initiatives. Passionate about solving real-world problems, continuously learning, and growing as a developer while exploring DevOps practices and AI-driven solutions.

## EDUCATION

### BSc. Honours in Computing & Information Systems

Sabaragamuwa University of Sri Lanka

Expected 2027

2023 - Present

### Diploma in Graphic Design

design.lk, Kiribathgoda, Sri Lanka

2021 - 2022

## EXPERIENCE

### Associate Image Processor

OREL IT

Aug 2022 - Dec 2022

*Kadawatha, Western Province, Sri Lanka*

- Ensured accuracy and consistency in image tagging and labeling to support computer vision projects.
- Collaborated with the quality control team to maintain data integrity and meet production deadlines.

## SKILLS

### 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

### Designing & Other

Photoshop, Illustrator, Digital Marketing

### 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

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

- Built an AI-powered chatbot to assist with sexual and OB/GYN health queries using OpenAI API and Weaviate vector database. Integrated file upload, natural language understanding, and real-time chat UI.
- Tech Stack:** React Native, Python, Django, Django Rest Framework, PostgreSQL, OpenAI API, Docker, Weaviate (Vector database)
- My Contribution:** Led backend and AI module integration, configured Docker environment, and managed database-API connectivity for intelligent query responses.

## 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 for prescriptions, drugs, and users.
- **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.

## 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

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**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

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- **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

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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

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### Mrs. R.M.K.K. Wijerathna

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### Mr. T.D.M. Perera

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