

# PUBUDU WIJESUNDARA

Software Engineer Intern

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

## PROFILE

Computing undergraduate with a strong focus on full-stack development, experienced in building practical web and mobile applications using React, React Native, Next.js, Django, PostgreSQL, and MongoDB. Comfortable working in Linux environments and using Git and Docker in real projects. Actively involved in academic projects, hackathons, and volunteer initiatives, with a mindset of learning by building. Interested in growing as a software engineer while exploring DevOps practices and AI-driven solutions to solve real-world problems.

## 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, TypeScript, Python, Go (Golang), C, Java, SQL

### Backend Technologies

Django, Django REST Framework (DRF), FastAPI, Node.js (Express.js)

### Frontend Technologies

React.js, Next.js, React Native, Tailwind CSS, Bootstrap

### Tools & Platforms

Git, GitHub, Postman, Docker, Ansible, Jenkins, Vercel, Supabase, Firebase, 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

### 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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