

PABODHA WANNIARACHCHI

SOFTWARE ENGINEERING UNDERGRADUATE - SOFTWARE ENGINEER INTERN

+94 70 194 7968 Kelaniya, Sri Lanka pabodhawanniarachchi@gmail.com [LinkedIn](#) [GitHub](#) [Medium](#) [Portfolio](#)

PROFILE

Dedicated third-year Software Engineering undergraduate at the University of Kelaniya, proficient in building robust full-stack applications utilizing Spring Boot, React, Node.js, and Docker. Motivated by a passion for impactful technology, I thrive in team-oriented environments and am deeply committed to continuous learning, and evolving as a capable developer and supportive teammate.

EDUCATION

BSc (Hons) Software Engineering

University of Kelaniya | **CGPA: 3.97 / 4.0** (Spec: Web Dev, Data Science, Mobile Computing)

2023 – Present

Colombo, Sri Lanka

GCE Advanced Level

Sujatha Vidyalyaya | **3A Passes** (Z-Score: **1.83**) – Maths, Chemistry, Physics

2019 – 2023

Matara, Sri Lanka

PROJECTS

PillPulse | Individual Project – In Development

[GitHub](#)

- Developed a web application for tracking and searching real-time medicine availability across local pharmacies based on user location
- Built a connected backend system using **Spring Boot**, utilizing **WebClient** for service communication and **RabbitMQ** for automated stock alerts
- Created a responsive **Next.js 14** frontend featuring an interactive map search and state management with **Zustand**
- Containerized the application components using **Docker** to simplify running, testing, and deploying the system locally

Technologies: Spring Boot, Next.js, PostgreSQL, RabbitMQ, Zustand, Docker, WebClient

AetherTech E-Commerce | Individual Project

[GitHub](#) | [Live](#)

- Built an online tech hardware store with a searchable catalog and a custom PC Builder tool that updates prices live as users pick parts
- Used the **Google Gemini API** to create a smart AI search, check if hardware parts are compatible, and auto-generate product descriptions
- Set up a secure **Node.js/Express** and **MongoDB** backend, using **JWT** to manage user roles and **Stripe** to process payments
- Managed the app using **Redux Toolkit**, saved product images with **Cloudinary**, and used **Docker** to easily package and run the project

Technologies: React, Node.js, Express, MongoDB, Redux Toolkit, JWT, Stripe, Docker, Cloudinary, Gemini API

DevDocs RAG | Individual Project – In Development

[GitHub](#) | [Live](#)

- Built an AI chat assistant that lets developers scan public GitHub repositories and ask questions about the codebase
- Utilized **GitPython** to read repository data and stored code information using a **Neon** database equipped with **pgvector**
- Connected the app to **Gemini** and **Groq LLaMA** models to deliver accurate answers based on user search queries
- Developed the system with a lightweight **FastAPI** backend and a clean **Next.js** interface deployed seamlessly on **Render**

Technologies: FastAPI, Next.js, Python, pgvector, Neon, Groq, Gemini API, LangChain, Docker

- Built a stall booking system for the Colombo International Book Fair with separate views for vendors and admins, featuring an interactive map for reservations
- Developed a **Spring Boot REST API**, using **Spring Security** and **JWT** to safely manage user roles, and **Spring Data JPA** for database storage
- Created separate **React** interfaces for vendors and admins, including live dashboards to track real-time booking stats
- Set up automated emails to send vendors instant booking confirmations with QR code receipts

Technologies: Spring Boot, React, MySQL, JWT

TECHNICAL SKILLS

Languages	: Java, JavaScript, Typescript, HTML/CSS, PHP
Backend	: Spring Boot, Node.js, Express.js, FastAPI, Microservices
Frontend	: React.js, Next.js, Redux, Tailwind CSS
Databases	: PostgreSQL, MongoDB, MySQL
Tools	: Docker, Git, Postman, Figma

CERTIFICATIONS & ACHIEVEMENTS

Dean's List Honoree - Placed on the honors list for academic performance during the first year

2nd Runner-Up (Junior Hack 7.0, University of Kelaniya) - Collaborated in a team to build a localized health and nutrition tracking web application using the **MERN stack**.

Prompt Engineering - **Sololearn**

SQL Intermediate - **Sololearn**

Java Intermediate - **Sololearn**

VOLUNTEER EXPERIENCE & LEADERSHIP

Organizing Committee Member (Documentation)

IEEE Student Branch, University of Kelaniya

Oct 2024 – Present

Colombo, Sri Lanka

- Collaborated within a three-person committee to manage, structure, and organize documentation for the KelaniXtreme 1.0 and IEEEExtreme 19.0 events

University Ambassador - IEEE Innovation Nation Sri Lanka

University of Kelaniya

Apr 2025 – Jan 2026

Colombo, Sri Lanka

- Represented the university in promoting academic programs and university initiatives

LANGUAGES

English: Professional Proficiency

Sinhala: Native Proficiency

REFERENCES

Dr. Isuru Hewapathirana

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