YASIRU PANDIGAMA

Software Engineer Intern

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SUMMARY

Computer Engineering undergraduate with experience in full-stack development, building user-focused web and mobile applications. A fast learner who adapts quickly to new tools and working environments. A collaborative team player, eager to contribute, learn, and grow in a real-world software engineering environment.

EDUCATION

University of Ruhuna, BSc (Hons) in Computer Engineering   (May 2023 – Present)

- Related coursework: Software project, Web development, Image processing, Information security, Machine learning, Computer Architecture, Data structures and Algorithms, Design patterns, Operating System programming, GUI development, Embedded Systems, Object Oriented Programming, Databases.

Mahinda College, Galle   (2008 -2022)

- GCE Ordinary Level Examination   9 A's
- GCE Advanced Level Examination   AAB

SKILLS

Front-end development: React, Next, Tailwind CSS, JavaScript and TypeScript.
Back-end development: Node / Express, Java / Spring Boot.
Mobile development: Flutter / Dart, Android Studio.
Databases: MySQL, PostgreSQL, MongoDB.
DevOps and Cloud computing: Linux, CI/CD, Docker, Jenkins, GitHub Actions, Terraform, Ansible and AWS.
Tools and technologies: Git, Jira, Figma, Postman
Other Languages: C/C++, C#, python.
Soft Skills: Project Management, Communication, Adaptability, Leadership and Teamwork.

PROJECTS

1. V-Connect – Volunteer Coordination Platform (Group Project)

- Co-developed a volunteer coordination platform to support event management and community engagement.
- Implemented role-based dashboards for volunteers and organizations with secure authentication and authorization, and Integrated features such as event updates, chat functionality, and donation tracking.
- Followed RESTful API design and cloud-native best practices for scalability and reliability.
- Technologies: React, JavaScript, Tailwind, Ballerina, REST APIs & MySQL

2. Personal Travel Bucket List - Full-Stack Web Application with DevOps

- Built a full-stack travel management application with secure authentication, RESTful APIs, and MySQL-backed data management for destination wish lists and travel goal tracking.
- Implemented an automated CI/CD pipeline using Jenkins and Docker, enabling continuous integration and faster, reliable deployments.
- Deployed the application on AWS using Terraform and Ansible to provision and manage a scalable, production-ready cloud environment.
- Technologies: React, Vite, Node.js, Express, MySQL, Docker, Jenkins, Terraform, Ansible, AWS (EC2, RDS), GitHub

3. MediSync – Personal Health Record Tracker (Mobile Application – Group Project)

- Built a cross-platform personal health record application using Flutter and Spring Boot to track six health metrics with intelligent analysis and automated risk assessment.
- Developed a secure RESTful backend with Spring Boot and PostgreSQL, implementing authentication and full CRUD operations for health records.

- Designed responsive and user-friendly interfaces with interactive charts, theming, and detailed reports across Android.
- Technologies: Flutter, Dart, Spring Boot, Java 17, PostgreSQL, Provider State Management, FL Chart, REST APIs, JPA/Hibernate, Maven

3. Other Projects

- Building a scalable mobile clinic (Arogya) management system for the Ministry of Health as an ongoing group project, focused on efficient health report management and queue handling using a modern microservices-based architecture with React and TypeScript for the frontend, Spring Boot microservices, Spring Cloud Gateway as the API gateway, and an SQL-based database.
- Developed InsecureBank, an interactive cybersecurity training web application intentionally designed with OWASP Top 10 vulnerabilities, featuring real-time attack simulations, role-based banking workflows, and live security monitoring, built using React, Node.js, Express, and MySQL, and showcased at REXTRO 2025.
- Developed Mirror, a full-stack reflective journaling web application featuring secure JWT-based authentication, mood tracking, guided prompts, customizable dark and light themes, and a responsive user interface, built using React, Node.js, Express, and MongoDB.
- Developed a Contact Manager Console application using C# and .NET, applying core DSA concepts and efficient data handling. Built a Pet Care appointment and service tracking systems (Both web and desktop apps) with a clean, user-friendly UI using React, Node.js, MySQL, and WPF, SQLite with C# .NET.

CERTIFICATES

- AI/ML Engineer – Stage 2 — SLIIT Faculty of Computing
- Docker Training Course for Beginners — KodeKloud
- Spring Boot for Beginners — Amigoscode
- API Beginner Path Certificate — Postman
- Java for Beginners — Amigoscode
- Server-side Web Development — University of Moratuwa
- Python for Beginners — University of Moratuwa
- Web Design for Beginners — University of Moratuwa
- Introduction to Cybersecurity — Cisco Networking Academy

EXTRA-CURRICULAR

- Our team 2nd Runner-Up at Coderally 6.0, organized by the IEEE Computer Society of Informatics Institute of Technology.
- Secured 4th place in the Cyber Rush Offensive Capture The Flag (CTF) Competition and secure 6th place in the Codex Competitive programming and dev challenge under CodeJam organized by the Moratuwa Department of Computer Science & Engineering.
- Achieved 40th place in the Sri Lanka section and 604th globally in the IEEEXtreme 18.0 Programming Competition.
- Participated in HaXtreme (5th place), Algothon (SLIIT - 10th place) and many more tech competitions.

VOLUNTEERING ACTIVITIES

- Worked as a Logistic Team Lead in the organizing committee of Eminance 5.0 organized by WIE affinity group University of Ruhuna.
- Worked as a Program Team member in the organizing committee of XbotiX 2025 organized by EIES of University of Ruhuna.
- Worked as a Program Team member in the organizing committee of Haxtreme 3.0 organized by IEEE Computer Society of University of Ruhuna.
- Volunteer at Meheware and Sasnaka sansada initiatives

REFERENCES

Dr. Nilmantha Wijesekara
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