

# PASINDU BANUKA

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## PROFILE SUMMARY

Innovative undergraduate and aspiring DevOps Engineer with extensive full-stack development experience. Proven track record of building complex applications independently, including AI-powered SaaS platforms and offline-capable PWAs. Proficient in cloud infrastructure (AWS/Azure), CI/CD automation, and Linux environments. Passionate about bridging the gap between development and operations through containerization and modern DevOps practices.

## EDUCATION

### Bachelor of Information and Communication Technology (Hons)

University of Sri Jayawardenepura, Sri Lanka

Specialization: Network Technology

Reading

### G.C.E. Advanced Level Examination

R/Sivali Central College – Bio Systems Technology Stream

District Rank: 09 | Island Rank: 160 (Results: SFT-A, ICT-B, BST-B)

2021

### G.C.E. Ordinary Level Examination

R/Sri Rahula Maha Vidyalaya

Passed with 4As, 4Bs, 1C (Distinctions in Mathematics & Science)

2018

## TECHNICAL SKILLS

- ✓ **DevOps & Cloud:** Docker, Kubernetes, Jenkins, Git/GitHub Actions, Linux (Ubuntu), AWS/Azure
- ✓ **Languages:** JavaScript, TypeScript, PHP, Python, HTML5, CSS3
- ✓ **Frameworks:** Next.js, React, Laravel, Tailwind CSS, Three.js, ShadCN UI
- ✓ **Databases:** MySQL, MongoDB, Firestore, IndexedDB
- ✓ **AI & Specialized:** Google Genkit (AI), Web Audio API, PWA (Progressive Web Apps)

## PROJECTS

### Portfolio V2 - Full-Stack & Enterprise Cloud Architecture

React 19, AWS EKS, Jenkins, Docker

A dual-perspective project demonstrating end-to-end software delivery with enterprise-grade DevOps practices.

- Designed a comprehensive **CI/CD pipeline** using Jenkins, Ansible, and Kubernetes (EKS) on AWS for container orchestration.
- Strategically deployed the live site on **Vercel Edge Network** (FinOps) for zero-cost infrastructure and global performance.
- Developed a reactive, terminal-themed UI using **React 19 & Vite**, packaged via **Docker** multi-stage builds.

### LankaRelief - Disaster Management Platform

React, Firebase, Docker, GitHub Actions

A centralized platform connecting donors, victims, and volunteers for real-time disaster coordination.

- Architected a full-stack solution using **React (Vite)** and **Firebase** for real-time data synchronization.
- Implemented a robust **CI/CD pipeline** using **GitHub Actions** and **Docker** to automate deployment.
- Integrated **Google Gemini AI** to power an intelligent assistant and refine user-submitted help requests.

### Azure DevOps CI Migration - Microservices Voting App

Azure DevOps, Docker, Linux, ACR

Migrated CI pipelines for a microservices-based application from GitHub Actions to Azure DevOps.

- Configured a **Self-Hosted Linux Agent** on an Azure VM to execute build jobs securely.
- Created multi-stage **YAML Pipelines** to build and push Docker images to **Azure Container Registry (ACR)**.
- Implemented path-based triggers to optimize build times for individual services (Vote, Result, Worker).

### LingoLeap - AI-Powered Language Learning App

Next.js, Google Genkit, ShadCN UI

An interactive language learning platform featuring AI-generated content and voice training.

- Built a modern web application using **Next.js 15** and **ShadCN UI** for a premium user experience.
- Integrated **Google Genkit** to generate dynamic quizzes and personalized learning content.
- Implemented a "Voice Trainer" module to analyze user pronunciation using web audio technologies.

### Pocket Kade - AI-Powered Inventory SaaS

Next.js, Firebase, Genkit, Docker

A multi-tenant SaaS solution for inventory management with AI features.

- Built a scalable SaaS platform using **Next.js** and **Firebase** with real-time data syncing.

- Integrated **Google Gemini AI** to provide smart line-item suggestions, enhancing user efficiency.
- Implemented Role-Based Access Control (RBAC) and automated stock tracking workflows.

## AgriVision Pro - Smart Farming System

PHP, MySQL, Three.js

*An advanced farm management dashboard with 3D visualization.*

- Developed a full-stack system to monitor crop yields, livestock, and financial analytics.
- Utilized **Three.js** for interactive 3D farm visualization within the browser.

## UniWiz - Job Portal Platform

React, PHP (Backend), MySQL

*A comprehensive recruitment platform connecting students with part-time jobs.*

- Designed a decoupled architecture with a secure PHP REST API and React frontend.
- Implemented real-time messaging, CV uploads, and company verification systems.

## ClassPay - Teacher Payment Manager (PWA)

HTML5, Tailwind, IndexedDB

*An offline-first Progressive Web App for managing class fees.*

- Engineered a **PWA** with Service Workers for fully offline functionality.
- Created a "Glass Morphism" design and automated receipt generation features.

## CERTIFICATIONS & COURSES

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- 🌟 **Aviatrix Certified Engineer (ACE) Multicloud Networking Associate** - Aviatrix
- 🌟 **Introduction to Amazon Q Developer (Technical)** - AWS Training & Certification
- 🌟 **Docker for the Absolute Beginner** - KodeKloud
- 🌟 **Kubernetes for the Absolute Beginners** - KodeKloud
- 🌟 **Linux Basics for DevOps** - KodeKloud
- 🌟 **Git for Beginners** - KodeKloud
- 🌟 **Jenkins: CI/CD with Jenkins** - Udemy
- 🌟 **Reading for Microsoft AZ-900 (Azure Fundamentals)**