

# 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

<b>Bachelor of Information and Communication Technology (Hons)</b> <i>University of Sri Jayawardenepura, Sri Lanka</i> Specialization: Network Technology	Reading
<b>G.C.E. Advanced Level Examination</b> <i>R/Sivali Central College – Bio Systems Technology Stream</i> District Rank: 09   Island Rank: 160 (Results: SFT-A, ICT-B, BST-B)	2021
<b>G.C.E. Ordinary Level Examination</b> <i>R/Sri Rahula Maha Vidyalaya</i> 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

<b>Portfolio V2 - Full-Stack &amp; Enterprise Cloud Architecture</b> <i>A dual-perspective project demonstrating end-to-end software delivery with enterprise-grade DevOps practices.</i>	<i>React 19, AWS EKS, Jenkins, Docker</i>
<ul style="list-style-type: none"><li>● Designed a comprehensive <b>CI/CD pipeline</b> using Jenkins, Ansible, and Kubernetes (EKS) on AWS for container orchestration.</li><li>● Strategically deployed the live site on <b>Vercel Edge Network</b> (FinOps) for zero-cost infrastructure and global performance.</li><li>● Developed a reactive, terminal-themed UI using <b>React 19 &amp; Vite</b>, packaged via <b>Docker</b> multi-stage builds.</li></ul>	
<b>LankaRelief - Disaster Management Platform</b> <i>A centralized platform connecting donors, victims, and volunteers for real-time disaster coordination.</i>	<i>React, Firebase, Docker, GitHub Actions</i>
<ul style="list-style-type: none"><li>● Architected a full-stack solution using <b>React (Vite)</b> and <b>Firebase</b> for real-time data synchronization.</li><li>● Implemented a robust <b>CI/CD pipeline</b> using <b>GitHub Actions</b> and <b>Docker</b> to automate deployment.</li><li>● Integrated <b>Google Gemini AI</b> to power an intelligent assistant and refine user-submitted help requests.</li></ul>	
<b>Azure DevOps CI Migration - Microservices Voting App</b> <i>Migrated CI pipelines for a microservices-based application from GitHub Actions to Azure DevOps.</i>	<i>Azure DevOps, Docker, Linux, ACR</i>
<ul style="list-style-type: none"><li>● Configured a <b>Self-Hosted Linux Agent</b> on an Azure VM to execute build jobs securely.</li><li>● Created multi-stage <b>YAML Pipelines</b> to build and push Docker images to <b>Azure Container Registry (ACR)</b>.</li><li>● Implemented path-based triggers to optimize build times for individual services (Vote, Result, Worker).</li></ul>	
<b>LingoLeap - AI-Powered Language Learning App</b> <i>An interactive language learning platform featuring AI-generated content and voice training.</i>	<i>Next.js, Google Genkit, ShadCN UI</i>
<ul style="list-style-type: none"><li>● Built a modern web application using <b>Next.js 15</b> and <b>ShadCN UI</b> for a premium user experience.</li><li>● Integrated <b>Google Genkit</b> to generate dynamic quizzes and personalized learning content.</li><li>● Implemented a "Voice Trainer" module to analyze user pronunciation using web audio technologies.</li></ul>	
<b>Pocket Kade - AI-Powered Inventory SaaS</b> <i>A multi-tenant SaaS solution for inventory management with AI features.</i>	<i>Next.js, Firebase, Genkit, Docker</i>
<ul style="list-style-type: none"><li>● Built a scalable SaaS platform using <b>Next.js</b> and <b>Firebase</b> with real-time data syncing.</li></ul>	

- 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)