

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)

Reading

University of Sri Jayewardenepura, Sri Lanka

Specialization: Network Technology

G.C.E. Advanced Level Examination

2021

R/Sivali Central College – Bio Systems Technology Stream

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

G.C.E. Ordinary Level Examination

2018

R/Sri Rahula Maha Vidyalaya

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

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

An advanced farm management dashboard with 3D visualization.

PHP, MySQL, Three.js

- 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

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

React, PHP (Backend), MySQL

- 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)

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

HTML5, Tailwind, IndexedDB

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

CERTIFICATIONS & COURSES

- 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)