LAKINDU WIDURANGA ALWIS

Experienced Full Stack Developer with Strong Business Acumen

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SUMMARY

Lakindu Widuranga Alwis is a self-taught software engineer specializing in AI and MERN stacks. In addition to his technical expertise, Lakindu has strong business acumen and skills. He is a dedicated blogger and tech contributor, committed to making a meaningful impact on the community. Lakindu has also gained recognition through participation in and victories at numerous hackathons, demonstrating his leadership and innovative capabilities as a young professional.

WORK EXPERIENCE

Intern Software Engineer, Axiata Digital Labs   **July 2023 - June 2024**

- Developed and maintained three key internal tools (PTR, PAT, and Roaster) to streamline business processes and improve team productivity. Also, maintained the company's WordPress Site which is responsible for internal processes of the company.
- As a solo developer, I collaborated closely with architects and managers to design and implement effective solutions.
- **Tech Stacks** - Angular, MySQL, NodeJS, Springboot, TypeScript and WordPress

Freelance Developer, Upwork   **Aug 2023 - Present**

- Consulted and developed software solutions specializing in OpenAI, MERN stack, Python, and Spring Boot technologies.
- Collaborated with clients from the USA and Australia on development and consulting projects, delivering tailored solutions to meet their needs.
- **Profile** : https://www.upwork.com/freelancers/~01d5c75ae6035dd240

EDUCATION

BSc (Hons) in Information Technology   **2021 July - 2025 July**
Sri Lanka Institute of Information Technology

- Studied software engineering, design principles, and the practical application of technology in real-world business contexts.
- Gained hands-on experience in developing software solutions and understanding industry best practices.

Physical Sceince Stream with ICT   **till 2020**
Mahanama College, Colombo 03

- Mahanama College is a leading boys' school in Sri Lanka, known for its high academic standards.
- Learn combined Mathematics, Physics, and Information and Communication Technology (ICT).
- Developed a strong foundation in applying mathematical and physical principles to solve real-world problems.
- Worked as a Technical Officer of the ICT Club of the Mahanama College. And Contributed many IT projects done by ICT club including developing IoT System.

PROJECTS

Internal Project Management and Audit Tools of Axiata Digital Labs

- As a solo developer, my role extended beyond coding. I designed and implemented solutions for the tools I worked on.
- Key achievements include:
  - Built robust authorization and authentication systems using Microsoft Authentication, enhancing security and usability.
  - Resolved architectural issues to improve the security and maintainability of the projects.
- **Tech Stack**: Angular, MySQL, Node.js, Spring Boot, TypeScript, WordPress

ML Model Management and Running system : Otago Polytechnic University, New Zealand

- Developed a system to upload and make predictions using machine learning models as part of a project at Otago Polytechnic, New Zealand.
- Implemented a modern architecture to integrate models with a Node.js server and manage the entire machine learning models process via a Flask server.
- **Tech Stack**: MERN-Stack, TypeScript, Flask Server

Smart Buyer Persona : Hagos Marketing, Texas, USA

- Smart Buyer Persona is a Generative AI-based internal SaaS product developed by Hagos Marketing. Our team contributed to this project as full-stack developers, handling both frontend, backend and AI related development to ensure a seamless and robust solution.
- **Tech Stack**: MERN-Stack, TypeScript, Digital Ocean, OpenAI API

Enterprise POS Systems integrate sales and inventory management, Senior Tyre, Sri Lanka

- Developed a robust Enterprise Point-of-Sale (POS) system for Senior Tyre, Sri Lanka, that integrates sales and inventory management to streamline business operations. The system optimizes transaction processes, tracks real-time inventory, and supports comprehensive reporting, enhancing operational efficiency.
- **Tech Stack**: MERN-Stack, TypeScript, Linux

GYMLY - Enterprise GYM MANAGEMENT SYSTEM, Akwid Labs

- GYMLY is a comprehensive SaaS platform designed to automate gym operations for owners, enabling full control over member management, scheduling, billing, and other essential tasks. I was responsible for designing the system architecture and contributing to the development of key features.
- **Tech Stack**: MERN-Stack, Azure, OpenAI, Flask, Python

FitenssLeaf Ai, Australia

- AI-based web application for generating vegetarian recipes tailored to users' nutritional requirements using generative AI technology for my Australian client.
- Link : app.fitnessleafai.com
- **Tech Stack**: Angular, MySQL, Node.js, Spring Boot, TypeScript, WordPress

AR Target Game – Internal R&D Project, Akwid Labs

- Developed an Augmented Reality (AR) game that allows players to use their smartphone cameras to aim and shoot virtual targets in real-world environments. The project utilized ARCore (Android) and ARKit (iOS) to implement object recognition and motion tracking, creating an engaging and immersive experience.
- **Tech Stack**: ARCore, ARKit, Unity, C#

AWARDS AND PARTICIPATIONS

1ST RUNNER-UP TEAM OF UNIMATE HACKATHON2021
- Hackathon Organized by the Research team of Robert Gordon University at the end of 2021.
- Redeveloped the Unimate app. It was built with the React-Native and Firebase.
- Specially, we added new privacy features and Improved Frontend.

MICROSOFT APAC AI 2023 - TOP 10 TEAMS
- This Hackathon is a groundbreaking event focused on harnessing the power of AI to improve accessibility for individuals with disabilities
- I led a team in developing a project to enhance the shopping experience for people with disabilities. We leveraged AI and cloud technologies, specifically on Microsoft Azure, to create an innovative solution.

TOP 10 TEAMS OF THE INCOHST 2019
- IoT Competition organized by the NCHS Sri Lanka.
- Developed a real-time air pollution detector using Arduino.
- video - https://youtu.be/NCJk0FzxgmM

TOP 10 TEAMS AND MOST POPULAR TEAM 2022
- Ideathon organized by the Microsoft club of the SLIIT in August and September 2022.
- First round we brainstormed a solution for inflation in Sri Lanka
- Final round we brainstormed a platform which allows Undergraduates and
- young adults to gain industrial experiences virtually.

CERTIFICATES
- AWS Academy Cloud Foundations
- Strategic Planning FoundationsStrategic Planning Foundations
- Python Data StructuresPython Data Structures
- Introduction to Generative AI
- Developing Secure Software
- Enterprise Architecture Foundations
- Xcode - AR app development
- Responsive Web Design
- Strategic Thinking Tips to Solve Problems and Innovate
- Python for Data Science
- Developing Secure Software
- Python Data Structures
- Getting Started with AWS IoT
- Machine Learning for Everyone

SKILLS
- MERN- Stack
- GenAI
- TypeScript
- Azure
- AWS
- SpringBoot
- Git
- Machine Learning
- Business Development
- Client Management
- Python
- IoT
- Microcontroller Programming
- API Security
- SQL and NoSQL Databases