









### CONTACT INFO



+94 77 378 5263

### **CORE COMPETENCIES**

- OOP
- **Embedded System**
- Data structure and Algorithms
- Machine Learning
- Computer Communication Networks
- Machine Learning and Data Mining - (currently)
- Electronics
- Signal Processing
- Database Systems

### LANGUAGES

- Dart
- JAVA
- Python
- С
- Arduino
- MQTT
- SQL
- Node.js
- ARM Assembly
- MongoDB

### FRAME WORK

- Flutter
- Firebase
- Google Cloud Function
- AWS
- TensorFlow

# VINASIRAJAN VILAKSHAN

### PROFESSIONAL SUMMARY

A Highly motivated computer engineering undergraduate eager to contribute to a software engineering team through an internship opportunity. Proficient in networking, machine learning, data structures and algorithms, and embedded systems. Possesses a strong foundation in software development and a passion for innovation. Seeking to apply theoretical knowledge and gain practical experience in developing robust and efficient software solutions.

### **EDUCATION**

BSC COMPUTER ENGINEERING (CURRENT)

University Of Peradeniya GPA - 3.8/4.0

DIPLOMA IN MANAGEMENT ACCOUNTING - CIMA

PRIMARY & SECONDARY EDUCATION

Hindu College Colombo -04 GCE A/L - 2A B GCE O/L - 9A

### COLLABORATIVE PROJECTS

#### **Digital Twin for Smart Agriculture** (current)

Creating a digital twin of a greenhouse to identify unsupervised learning patterns and optimize agricultural practices using machine learning techniques for increased efficiency and productivity.

## EagleEye: Unleashing Real-Time Remote Monitoring $\bigcirc$ (2022)



Developed an ESP32 camera system that captures real-time video from an onion storage and seamlessly displays it to the user through a dashboard app.

### Contributions

- Arduino Coding ESP32-CAM
- · Circuit Design and Integration
- MQTT Dashboard Implementation
- Flutter Mobile App Development

## Pegas: Smart Gas Monitoring System (2023)







Pegas is a smart gas system that monitors gas levels and detects gas leaks. Our mobile app allows users to view daily usage statistics, consumption levels, and receive notifications for gas leakage incidents.

- Hardware Integration: Gas Monitoring & Leak Detection
- Flutter Mobile App: Remote Control & Monitoring
- Google Cloud Functions: Event Automation
- Firebase: Secure Data Storage & Sync

#### **LEADER SHIP**

- Prefects' Guild (2010-2015)
- <u>University Web Development</u> <u>Team</u> - Participation
- Aesthetics Club President (2017)

### DOMAIN KNOWLEDGE

- e-business
- logistics
- crypto currencies (block chain)

### HOBBIES AND INTEREST

- playing mobile games
- watch Netflix & movies

### **SOFT SKILL**

- Time Management
- Self-motivation
- Adaptability
- Team Work
- · Problem Solving
- Communication

### LANGUAGES

- Tamil
- English



### **EXTRA CURRICULAR ACTIVITY**

Intra School Competition

200m Race - 5th place (2017)

## INDIVIDUAL APP DEVELOPMENT PROJECTS FOR COMMUNITY IMPACT



- Enables users to create and share polls, save WhatsApp statuses, and split videos for direct status sharing.
  - Flutter Mobile App
  - · Firebase Integration
  - Play Store Deployment
  - 500+ Downloads







- Developed an app to assist direct shipping businesses in calculating shipping rates.
- Established and managed the "srilankanshipping.lk" domain to promote and support the Sri Lankan direct shipping community.
  - Flutter Web App Rate Calculator
  - WordPress Home Page
  - Search Engine Optimization
  - 250+ users

## 🛂 Lankan Assist : An app for All Srilankans 🕨 (2021)

- A comprehensive app catering to Sri Lankan users, providing a range of features such as real-time Sri Lankan news from Twitter, railway schedule information, and more. (9+ features)
  - · Developed using Flutter framework
  - Integrated ICTA API for railway schedule information
  - Utilized Twitter API and queries for real-time news updates
  - Garnered 1000+ downloads

### **ACHIEVEMENT**

ACES CODERS V 9.0

- National-wide problem-solving hackathon
- 26th place out of 100 Teams
- · Organized by Computer Engineering Department,
- · University of Peradeniya

### ENTREPRENEURSHIP

EMTECHMART (CEO & FOUNDER)

- eBay for International Customers
- daraz for Local Customers
- exchange

Emtechpedia (FOUNDER) - 2020

· Tech Blogs Publishing

### REFERENCES

Roshan G. Ragel BSc-Eng, PhD Professor and Head I Computer Engineering I University of Peradeniya roshanr@eng.pdn.ac.lk