

# VILAKSHAN VINASIRAJAN

[in LinkedIn](#) | [+94 77 378 5263](tel:+94773785263) | [vilakshan29.me](http://vilakshan29.me) | [M vilakshan2996@gmail.com](mailto:vilakshan2996@gmail.com) | [GitHub](#)

## Education

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- University of Peradeniya** Dec 2019 - Current  
**BSc Computer Engineering** (3.8/4.0)  
• **Courses:** OOP, Data Structure & Algorithm, Machine Learning, Software Engineering, Database Systems, Operating System, Networking, Embedded System
- Diploma in Management Accounting - CIMA** 2019




## Skills

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- Languages:** Python, Java, C, Dart  
**Back End Development:** Node.js, Firebase  
**Mobile App Development:** Flutter  
**Databases & Cloud Services:** Cloud Firestore, MySQL, AWS (Beginner Level), Firebase Functions  
**Other:** Linux, ARM, MQTT, Docker, CI/CD, DevOps (Beginner Level)  
**Soft Skill:** Problem-solving, Leadership, Teamwork, Effective Communication



## Collaborative Projects

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- Pegas: Smart Gas Monitoring System**  2023  
• Monitors gas levels and detects gas leaks using sensors  
• App allows users to monitor gas levels and receive alerts for gas leaks  
*[Flutter, Firebase, Embedded System, C]*
- EagleEye: Unleashing Real-Time Remote Monitoring**  2022  
• Captures real-time video from an onion storage and seamlessly displays it to the user through a dashboard app.  
*[Arduino, Flutter web, MQTT, C]*
- Digital Twin for Smart Agriculture**  (current)  
• Maintains a temperature and Humidity within the level  
• Won ACES Hackathon 2023  
Supervised Machine Learning: *[Linear Regression, Decision Tree, Forest, XGBoost]*

## Individual Projects

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- WSAP - Tool Kit for WhatsApp** 2021  
• Enables users to create and share polls, save WhatsApp statuses, and split videos for direct status sharing.  
• Have 500+ downloads on [Google Play](#).  
*[Flutter, Firebase]*
- Sri Lankan Shipping Rate**   2023  
• Assist direct shipping businesses in calculating shipping rates.  
• Have 1000+ impressions  
*[Flutter Web, Firebase, Google Search Console, CI/CD]*

## GOOGLE SCHOLAR WEB SCRAPE BOT

2023

- Obtain the usernames, citation counts, and links to the Google Scholar profiles of university staff members.

*[Python, Selenium]*

## Lankan Assist : An app for All Srilankan

2021

- Offers a diverse range of functionalities including real-time Sri Lankan news sourced from Twitter, railway schedule information, and various other features.

- Have 1000+ downloads on [Google Play](#).

*[Flutter, Firebase]*

## STUDENT RESULTS MANAGEMENT SYSTEM

2021

- An app for undergrads to analyze their results without the involvement of supervisors or lecturers.

*[JAVA, Android Studio, Firebase]*

## DIGITAL CLOCK

2021

- displays the current time and date on a Linux terminal, mimicking the appearance of a digital clock with the appropriate format and font.

*[C]*

## BUILDING AN 8-BIT SINGLE CYCLE COMPUTER PROCESSOR- RISC V

2021

- An 8- bit single cycle processor with an ALU, register file, control logic, data memory, data cache, instruction memory and instruction cache. A memory hierarchy was built too.

*[ARM]*

## Contributions to Open Projects within University Teams

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### Improving Deep Learning Workflow

- Configure Singularity on a Linux server and execute PyTorch containers from Docker Hub using Singularity images.

*[Linux]*

### University Web Development Team

- Research on Impact Ranking

## Achievement

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### ACES HACKATHON (2023)

- Title winners under Sustainable category
- Demonstrated Smart Green House Project

### ACES CODERS V 9.0

- National-wide problem-solving hackathon
- 26th place out of 100 Teams

## References

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Roshan G. Ragel BSc-Eng, PhD

Professor and Head I

Computer Engineering I

University of Peradeniya

[roshanr@eng.pdn.ac.lk](mailto:roshanr@eng.pdn.ac.lk)

Dr. Eng. Kamalanath Samarakoon PhD

Senior Lecturer of the Department

Computer Engineering.

[kamalanath@eng.pdn.ac.lk](mailto:kamalanath@eng.pdn.ac.lk)