

# THULASIYAN YOGESWARAN

COMPUTER ENGINEERING UNDERGRADUATE



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## SKILLS

- **Programming Languages**  
Java, JavaScript, Python, C
- **Web Development**  
React, Spring Boot, HTML, CSS, Node.js, Express.js
- **Database**  
MySQL, PostgreSQL, MongoDB, Firebase
- **Mobile App Development**  
Flutter, Java
- **Hardware Programming**  
Verilog HDL, Arduino C, ARM Assembly
- **Clouds**  
AWS - EC2
- **Version control**  
Git and Github, BitBucket
- **Tools**  
Jupyter Notebook, Anaconda, Linux Terminal, VS Code, Postman, BloomRPC
- **Graphic Design**  
Adobe Photoshop, illustrator, XD

## INTERESTS

- Full Stack Web Development
- Software Engineering
- Mobile App Development
- Machine Learning
- IOT

## PROFILE

I am a dedicated and self-motivated computer engineering undergraduate seeking a position where I can utilize my skills and gain experience as a **full-stack or back-end software engineer** to further my career, become a successful professional in the industry, and make significant contributions to the team and company.

## EDUCATION

- **BSC ENGINEERING HONOURS IN COMPUTER ENGINEERING**  
Faculty of Engineering, University of Peradeniya | 2019 - Present  
- Current GPA: 3.40/4.00
- **GCE ADVANCED LEVEL EXAMINATION - PHYSICAL SCIENCE**  
Kokuvil Hindu College, Jaffna | 2010 - 2018 | Z Score - 1.882  
- A, A, B for Combined Mathematics, Chemistry and Physics respectively.

## WORK EXPERIENCE

### SOFTWARE ENGINEERING INTERN, ISA

( Aug 2023 - Dec 2023 )

- Collaborated with a team of software engineers at ISA, a company specializing in aviation software solutions.
- Contributed to multiple software products: aeroANCI, aeroSUITE, and aeroAGENT.
- Contributed to unit test case writing, identifying and addressing code smells, participating in bug fixing, and implementing new features.
- Engaged in regular code reviews and provided constructive feedback to team members, fostering a culture of continuous improvement.
- Gained hands-on experience with technologies like **Java, SpringBoot, MVC, Gradle, Apache Kafka, gRPC, React, Kibana, PostgreSQL, BitBucket, Docker, Jenkins, and Jira.**

## PROJECT EXPERIENCE

### CINEMA APP - INTERNSHIP PROJECT

(INDIVIDUAL - 2023)

**Technologies:** Java, SpringBoot, Gradle, React, PostgreSQL, Apache Kafka.

- Developed a Cinema Ticket Reservation App, encompassing cinema profile management, movie addition, editing, reservation validation, and confirmation processes, along with seat inventory management for showtimes on various days.
- Implemented micro-services for scalability.

**[Git Repo](#)**

## COMPETITIONS

- **Winners | HackFest** 2022  
organized by [ACES](#)  
[University of Peradeniya](#)
- **Top 25 | Coders v 9.0** 2023  
(12 hours coding competition)  
organized by ACES  
University of Peradeniya
- **Runners up | ACES Hackathon**  
organized by [ACES](#) 2023  
[University of Peradeniya](#)

## LANGUAGES

Tamil - Native proficiency  
English - Professional proficiency  
Sinhala - Limited Working Proficiency

## VOLUNTEERING EXPERIENCE

### Casual Instructor

Department of Computer Engineering, University of Peradeniya  
CO 226: Database Systems

### Web Consultation Team, University of Peradeniya

Team Member | Collaborated with a team to identify and address issues related to university web ranking.

## REFERENCES

### Prof. Roshan G. Ragel

Head of the Department  
Department of Computer Engineering,  
Faculty of Engineering,  
University of Peradeniya.

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### Shamindra Hettiarachchi

Project Manager cum Scrum Master  
Serverless Guru, LLC. consultant for Air Canada

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### AUTOMATED MEDICAL IMAGE ANNOTATION FOR DATASET BUILDING - FINAL YEAR RESEARCH PROJECT

#### Technologies: Python, ML

(GROUP - 2024)

- This model can predict and segment images using user-provided annotated images.
- Text prompting can be included.
- We are currently focusing on using our own dental images to train an existing self-supervised few-shot semantic segmentation algorithm.

[Website](#) [Git Repo](#)

### CORALS PROTECTOR

(GROUP - 2023)

#### Technologies: React, Node.js, MongoDB, Express.js, AWS

- Created and deployed the Corals Protector project to analyze factors affecting coral growth and human impact on reefs.
- Developed a secure web application hosted on AWS EC2, ensuring controlled access to sensitive data.
- I contributed to develop front-end.

[Website](#) [Git Repo](#)

### "SNAT" - MEAL TRACKING APP

(GROUP - 2022)

#### Technologies: Flutter , Firebase & Firestore

- "SnaT - Meal Tracking" is a mobile app, developed with the collaboration of a Food Science Research Team from Wayamba University.
- I contributed to develop both front-end and backend.

[Git Repo](#)

### CRYPTOCURRENCY-BIDDING-APP

(GROUP - 2022)

#### Technologies: Java, Firebase & Firestore

- The app was designed as a way to sell and buy Cryptocurrencies by the Real-time auction method.
- I contributed to develop both front-end and back-end.

[Git Repo](#)

### OPTICAL CHARACTER RECOGNITION AND TRANSLATION FROM SINHALA TO TAMIL FOR PRINTED DOCUMENTS

(GROUP - 2023)

#### Technologies: Natural Language Processing, React, Node.js, OCR

- This software reads printed Sinhala text, using optical character recognition (OCR) to turn it into editable text, and then translates it into Tamil.
- Using the program, the user can upload and download the document.
- I contributed to develop front-end.

[Git Repo](#)

### SECURED VISION CAMERA SURVEILLANCE SYSTEM WITH AUTOMATED LIGHTING

(GROUP - 2023)

#### Technologies: Flutter, Firebase & Firestore

- Implemented a security system capable of detecting unauthorized access.
- Developed functionalities to automatically activate lights and capture images of intruders upon detection.
- Created a user-friendly dashboard providing access to the security system's database and enabling real-time monitoring.
- I contributed to the develop front-end and IOT.

[Git Repo](#)