

# VIRAJ DHANUSHKA

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## PERSONAL STATEMENT

A motivated, adaptable and responsible computer engineering undergraduate seeking opportunities to utilize professional and technical skills through work experiences in this field. Have good knowledge of web / mobile application development and technologies related to it. Highly interested in learning and teaching new technologies. Very keen to do projects and organize activities with team effort.

## EDUCATION



### University of Peradeniya, Sri Lanka

2017 - Present

- BSc. Engineering in Computer Engineering – **Second Class (Lower Division)**
- ETIC Facilitate Certificate - Engineering Technology Incubation Center provide an ecosystem where the successfully completed projects will be incubated into products of commercial value
- Active member at IEEE SB, ACES, University Explorers' Club, AIESEC in Kandy



### National Institute of Technology Calicut, India

2019

- Scholarship (2 weeks of training under a grant awarded by India Sri Lanka Foundation)
- Studied Numerical Methods for ODEs with MATLAB and Computer Architecture



### Rahula college, Matara, Sri Lanka

2001-2015

- GCE A/L in Physical Science – Combined Mathematics (A), Physics (B), Chemistry (B), English (A)
- Active member at ICT Society (Organizer), Science Society (Organizing Committee member)

## PROJECTS

### Projects Done for Academic Evaluations ([Link to All the Projects](#))

#### Food Recommendation System Using Machine Learning for Diabetic Patients (Team Lead) [Final Year Research Project - Ongoing]

Recommend proper foods for diabetic patients in the context of nutrition & food characteristics by developing a machine learning based intelligent application

Flutter, Azure Machine Learning Studio, Python, scikit-learn, Open Food Facts

#### Digital Signage Based User Targeted Advertising (Team Lead)

A Signage platform that uses Deep Learning techniques to display the most matching advertisements for people considering their age and gender

Flutter, Firebase, OpenCV, Python, Arduino, Bash, MQTT, Raspberry Pi, NodeMCU, Bootstrap, Drupal, PHP, MySQL

#### Sale Library (Team Lead)

A web platform that allows users to buy, exchange, sell books with advanced searching, filtering, sorting techniques and chat functionalities

#### Verilog based CPU (Individual)

A 32-bit CPU that supports simple instructions with caching

Verilog HDL, C

#### Prototype of Arithmetic and Logic Unit (Team Lead)

An 8-bit ALU which is designed using Proteus and build using logic gates

Proteus, PCB Manufacturing

#### Auction System (Team Lead)

A server and a client interface implementation for bidding in the stock exchange

Java, Socket Programming

#### Fractals Implementation (Individual)

Fractals Implementation using multi-threading and synchronization techniques

Java

### Projects Done Apart from the University

#### Cloud Security Status Monitoring Tool (WSO2 Internal App)

A full-stack web app to monitor SAST and IaC pipelines in GitHub repositories

React JS, Material UI, Ballerina Cosmos DB, Choreo, Asgardeo

#### WSO2 - Ballerina Extended Library (Open-Source Contributor)

Fix issues in Cosmos DB connector and introduce new features to GitHub Connector

Ballerina, CosmosDB Connector, GitHub Connector

#### Find Delivery (Team Lead - Available on Google Play Store)

A mobile application to find closest shops to streamline home delivery of products using cloud functions driven push notifications

Flutter, Firebase, API Integration (Google Maps API)

#### OpenEMR-Mobile App (Open-Source Contributor)

Contributed project for Google Summer of Code - 2021

Flutter, Firebase

#### Uniboard (Team Lead)

A mobile app with notice classification and cloud functions driven push notifications

Java, Firebase

#### Food Point (Freelancer)

A mobile app for a restaurant

Flutter, API Integration

#### Soil Moisture Based Smart Water Controlling System (Team Lead)

An automated irrigation controlling system to monitor using a mobile application

Flutter, Firebase, Arduino, NodeMCU

#### Dengue-Stop (Open-Source Contributor)

Contributed project for Google Summer of Code - 2020

Flutter, Firebase

## AWARDS & ACHIEVEMENTS *(Link to All Participated Competitions)*

<b>Ballerina - WSO2 Global Hackathon 2022 [Individual]</b> <i>Organized by WSO2 as an Internal Hackathon for employees</i>	<b>Consolation Prize Winner</b> <i>Rank 44</i>
<b>Microsoft Imagine Cup 2022 [Team Lead]</b> <i>Organized by Microsoft</i>	<b>World Finalist</b> <i>Among the top 48 teams in the world</i>
<b>Microsoft Identity for All 2022 [Team Lead]</b> <i>Organized by Microsoft</i>	<b>Winner</b> (Honorable Mentions) <i>From 450+ global participants</i>
<b>Microsoft Virtual Hackathon 2022 [Team Lead]</b> <i>Organized by Microsoft</i>	<b>Semifinalist</b> (Phase 1) <i>Among the top 34 teams from 15 countries</i>
<b>Special Call for Proposals Related to CoViD'19 [Individual]</b> <i>Organized by IEEE R10 in 2020</i>	<b>Winner</b> <i>Among the top 5 projects of the largest IEEE region</i>
<b>National Ingenuity awards [Team Lead]</b> <i>Organized by SLASSCOM in 2021</i>	<b>Best Innovative Project - Central Province</b>
<b>Undergraduate Inventor of the Year (UIY) 2021 [Team Lead]</b> <i>Organized by IESL in 2021</i>	<b>Country Rank: 3</b> <b>Best Short Video</b> (Country Rank: 1)
<b>Hackfest- Inter-University Hackathon [Team Lead]</b> <i>Organized by General Sir John Kotelawala Defense University, 2021</i>	<b>Country Rank: 1</b>
<b>versusCOVID- Inter-University Hackathon [Individual]</b> <i>Organized by University of Peradeniya in 2020</i>	<b>Country Rank: 2</b>
<b>ACES Hackathon- Intra-University Hackathon [Team Lead]</b> <i>Organized by University of Peradeniya in 2019</i>	<b>1st place</b> (20+ teams)
<b>hackX- Inter-University Startup Challenge [Team Lead]</b> <i>Organized by University of Kelaniya in 2020</i>	<b>Finalist</b> (100+ teams)
<b>ACES Coders - Largest Algorithmic Coding Competition in Sri Lanka</b> <i>Organized by University of Peradeniya in 2020</i>	<b>Country Rank: 8</b>
<b>Hakathon Xtreme - Algorithmic Coding Competition</b> <i>Organized by University of Moratuwa in 2019</i>	<b>Country Rank: 8</b>
<b>Sri Lankan Robotics Challenge - Robotics Competition</b> <i>Organized by University of Moratuwa in 2015</i>	<b>Country Rank: 2</b>

## SKILLS

<b>Programming Languages</b>	Python, Dart, Ballerina, Java, C, Haskell, Verilog, MATLAB
<b>Mobile Applications</b>	Flutter, React-Native, Java
<b>Web Applications</b>	React JS, Material UI, Drupal, WordPress, Bootstrap
<b>Cloud Computing</b>	Firebase, Azure Cosmos DB, Azure App Service
<b>Embedded devices</b>	Raspberry Pi, Arduino, NodeMCU
<b>Other Skills</b>	Git (GitHub), MySQL, Docker, Android Studio, VS Code, IntelliJ IDEA, Touch Typing

## EXPERIENCE

<b>WSO2 Lanka (Pvt) Ltd [2022 - 06 month Internship]</b>	<b>Software Engineer Intern</b>
<b>Thinkhash (Pvt) Ltd [2022 - 05 months]</b>	<b>Contract Full Stack Developer</b>
<b>Self Employed [2021 - Present]</b>	<b>Freelancer / Python Instructor</b>

## EXTRA CURRICULAR ACTIVITIES

Microsoft Learn Student Ambassadors program [2021 - Present]	<b>Alpha / Beta Student Ambassador</b>
IEEEExtreme [2021 - 2022]	<b>Ambassador</b>
IEEE Student Branch - University of Peradeniya [2021 - 2022]	<b>Program Committee Lead</b>
Project Nenathambara [2021 - Present]	<b>Volunteer</b>
IEEE SLSYWC'20	<b>Team Lead</b>
IEEE Region 10 SYWL Congress 2020	<b>Speaker</b>
OpenTech Summit Sri Lanka 2020 (OpenTech and FOSSASIA)	<b>Volunteer</b>
AIIESEC in Kandy, Blue Marble 15.0 [Term 19/20]	<b>Organizing Committee Vice President</b>

## REFERENCES

### Mr. Suresh Rupasinghe

Technical Lead (Cloud Security)  
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### Ms. Vimukthi Perera

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