



# SHEHAN ERANGE VANDERPUTT

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**Blogs:** <https://ltecTricks.blogspot.com> <https://techstanis.wordpress.com>

**GitHub:** <https://github.com/stanislous>

**Hackerrank:** <https://hackerrank.com/iRoboTs>

**Stack Overflow:** <https://stackoverflow/users/6484447/cosmics>

**Portfolio Blog:** <https://shehanv.azurewebsites.net/>

## EDUCATION:

The University of Peradeniya. Sri Lanka

Bachelor of Science in Computer Engineering

GPA 2.80

## PROJECTS:

### ✓ Auction Server – 2016

This is a project on handling multiple threads (Users) using a single web socket. Once a user establishes a connection with the server, it maps the user to a different port and frees the base socket.

**Technologies (Skill Sets):** Java SE

### ✓ Software Engineering Project – GPU based Parallel Audio Processing System - 2016

This project we implemented real-time equalization GPU extended this technique to parallel signal equalization. These tasks have been tested on NVidia GeForce graphic card and high-performance NVidia Tesla GPU.

**Technologies (Skill Sets):** C, CUDA C, MATLAB

### ✓ Online Multiplayer Game - 2017

This is a Network and Web application project. Our task was to send appropriate game logic to the user using a servlet according to data which are sent by the user.

**Technologies (Skill Sets):** Java EE

### ✓ Embedded System Project – Wearable Device that Remotely Controls a Robot Arm - 2017

This is a wearable device that can remotely control a robotic arm. Our task was to control the arm remotely over Wi-Fi. This device

uses the location of the human hand to move the hand of the robot arm but not imitate the shape of the hand.

**Technologies (Skill Sets):** Arduino programming in C, JavaScripts, Nodejs, Threejs,

**Hardware:** Arduino Mage, Wi-Fi module, Robot Arm

### ✓ The Lister – 2017

A kernel module that lists all current tasks in a Linux system. The Lister is a kernel module that iterates through all tasks in the operating system. And showed the content using the DFS tree.

### ✓ Contributing to the Open Source Project – Teammates

TEAMMATES is a free online tool for managing peer evaluations and other feedback paths of your students. It is provided as a cloud-based service for students and is currently used by hundreds of universities across the world. I contributed to this open project. Link: <https://github.com/stanislous/teammates>

**Technologies (Skill Sets):** HTML, Bootstrap, JavaScript

## COMPETITIONS:

### ✓ Participated in SAIM Robotics Challenge - 2016

The challenge is to develop an autonomous robot that can arrange objects in a grid-based arena. The challenge emulated a factory floor and challenges the robot to collect three rings and stack them on a pole within the shortest possible time. This is a line following robot.

### ✓ Participated in ACES Hackathon – 2016

Our task was to implement an Android-based software and a PC-based message Hub. Once you connect your phone to your PC via Wi-Fi, you can read and reply to messages from your PC without seeing your phone.

**Technologies (Skill Sets):** HTML, CSS, JavaScript, Android

### ✓ Participated in SLIIT Robo Fest Challenge - 2016

Our task was to develop an autonomous robot that has the capability of finding the finish line in a mesh.

**Technologies (Skill Sets):** Arduino programming in C

**Hardware:** Arduino Mage, the Robot

### ✓ Participated in IEEE Xtreme Coding Competition – 2016

This is a 24 hours coding competition and had given to solve a set of programming problems.

### ✓ Participated in HackX Hackathon – 2017

That was a conceptual idea of sharing stories build collaboratively by several people using drawing. My task was to create a drawing board using Android.

**Technologies (skill Sets):** Android

### ✓ Participated in online coding competition in Hackerrank

Hackerrank is the best place to practice coding. Similarly, there are lots of online programming competitions. I practiced as a habit for 'Week of Code', 'Hour Rank', '101 Hack', 'Ad infinitum' etc.

**Technologies (Skill Sets):** C, Java, Python

### ✓ Participated in ACES Hackathon – 2018

Our task was to develop a system to control devices remotely when the user is out of the home.

**Technologies (Skill Sets):** ASP .NET, Entity Framework

### ✓ Final Year Project – Portable Executable Scanner – 2018

Our DLL Scanner's job basically is to read a DLL/EXE file and extract lots of information inside that compiled code. Version 1 of the tool is published in source forge. Official website is hosted in Azure.

**Technologies (Skill Sets):** Visual Studio 2017, C#, Bootstrap 4, Microsoft Azure

## INDUSTRIAL TRAINING

I worked as a software engineering intern at TIQRI Corporation (Pvt) Ltd from 11<sup>th</sup> September 2017 to 28<sup>th</sup> February 2018.

### ✓ Induction Training Program

The self-defined project called 'NFC Peer-to-Peer Communication'.

**Technologies (Skill Sets):** Android, NFC, Android Beam

### ✓ Event Management System Project

Event Management System is Platform for organizing and managing events in Tiqui Pvt. Ltd. It is a newer project defined for interns. We followed the agile scrum process.

**Technologies (Skill Sets):** C#, ASP.NET Core 2.0, .NET Core 2.0 WEB API, Entity Framework Core 2.0, Angular 5, Bootstrap 4, Git workflow, Balsamiq Mockups

**Project Management (Agile):** Jira, Confluence

**Architecture:** Clean Architecture

### ✓ Kids Can Code Sessions

I taught coding to children as a volunteer in TIQRI.

## CO-CURRICULAR ACTIVITIES

### ✓ Mobile Billing Engine

This is a Mobile Billing Engine that creates bills for the customers. Billing Engine is provided with List of registered customers and list of call details records which are created by above list of the customers.

**Technologies (Skill Sets):** C#, TDD

### ✓ Smart Home

I created a bootstrap website and converted into ReactJs.

**Technologies (Skill Sets):** HTML 5, Bootstrap 4, ReactJs

### ✓ Feast Mate

This is an online food shop for Fiverr client. Recently, I'm developing the website.

**Technologies (Skill Sets):** Balsamiq Mockups, Angular 5, Bootstrap 4

### ✓ Maintain My Own Blog and Portfolio Website

Website maintaining is one of my habits. This website consists of Agile, MVC, Java, Git, Angular and computer related stuff.

### ✓ Contributing the Stack Overflow

Contributing the Stack Overflow is also do it as a habit. According to my knowledge help others by answering the questions they ask.

## REFERENCES

### **Dr. ROSHAN G. RAGEL**

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University of Peradeniya,  
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