

# SUSITH HEMATHILAKA

## Undergraduate | Software Engineer

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## EDUCATION

University of Westminster 2017 - 2021

### • BEng (Hons) Software Engineering

Current Grade - First Class (Equivalent of 3.7+ GPA)

Course Work - Object Oriented Programming, Concurrent Programming, Data Structure & Algorithms, Database Systems, Mobile UX, Client Server Architecture, Web Design & Development, Android Application Development, Reasoning about Programs

## WORK EXPERIENCE

DirectFN (Pvt) Ltd Colombo, Sri Lanka

Software Engineering Intern Jul 2019 – Jul 2020

Projects – DFN Monitoring, CSM

• Technologies – Java(Spring Boot, Java EE), JMS, ActiveMQ, Netty, Maven, Jboss, WebSphere, Jetty, JGroups, JavaMail, Jackson, SoupBinTCP, QuickFix, SWIFT MT, Agile-Kanban, Jira, Junit, Git

## PROJECTS

MaskNet – Occlusion Invariant Face Recognition System  
Research Project | Deep Learning | Computer Vision

• Description – Occlusion Invariant face recognition system which capable in recognizing faces while wearing a face mask.

• Technologies & Tools – Python, Tkinter, SQLite, Keras, TensorFlow, Siamese Networks, Face Recognition

SmartGuru – Adaptive Learning Platform for Java  
NLP | Recommendation Systems

• Description – Smart adaptive learning platform for Java based on student performance with friendly challenges.

• Technologies & Tools – Python, Flask, React Native, MySQL, phpMyAdmin, MySQLWorkbench, AWS, Git

• Recognition – Cutting Edge 2019 Finals

DigiLib – Online Library Manager

• Description – Fully featured digital library management solution designed for keeping track of the books.

• Technologies & Tools – Java Play, Ebean ORM, Angular, MySQL, Scala SBT, Junit



*"Seeking for opportunities in the fields of software engineering & cloud computing to meet challenges as a smart and hardworking professional; where I can utilize my skills, strength and experiences to contribute towards the growth of the place where I work."*

## TECHNICAL SKILLS

### • Concepts & Fields

Software Engineering

Concurrency

Network Programming

Databases

Agile Practices

### • Programming Languages

Java

JavaScript

Python

### • Backend Technologies

Spring

JavaEE

Netty

Flask

Hibernate

### • Web/ Mobile Technologies

Angular

Android

jQuery

React Native

### • Data Science

Deep Learning

Computer Vision

Machine Learning

### • Database

MySQL

SQLite

### • Cloud & Devops

AWS

Docker

### • Support tools

Maven

Git

Jira

Junit

## SonicPrint - Shared Printing Simulator

- Description – Concurrent programming application for shared asynchronous printing system including real time refilling written using java concurrency concepts.

## Pathfinder – A\*Star based Path Finder Visualization

- Description - 2D maze path solver visualizer to show the beauty of pathfinding supports diagonal and non-diagonal pathfinding and change the speed of the visualization during runtime.
- Technologies & Tools – Algorithms, Java, JavaFX

## Vis-Flow – Graph Visualization of Max Flow

- Description – Algorithm visualization tool for graph generation With a visualization of maximum flow finding.
- Technologies & Tools – Java, Java Swing, JGraphX

## GuessFlag – Android Flag Quiz

- Description – game full of fun that consists of guessing the names of hundreds of countries flag from around the world including different game mods and leaderboard.
- Technologies & Tools – Java, Android, Gradle

## eRAIL – Mobile Web Application for Train Ticket Booking

- Description – Mobile web application fully facilitated with the capabilities of the train ticket booking system and more exciting features.
- Technologies & Tools – JavaScript, jQuery, Figma

## CERTIFICATIONS

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### Google Cloud on Coursera

Google Cloud Platform Fundamentals: Core Infrastructure

### LearnQuest on Coursera

Fundamentals of Kubernetes Deployment

### University of Michigan on Coursera

Python Data Structures

### Jhon Hopkins University on Coursera

The Data Scientist's Toolbox

### Google Sites

Google Mobile Sites Certification

## PUBLICATIONS

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### AN ANALYSIS OF FACE RECOGNITION UNDER FACE MASK OCCLUSIONS

MLDS 2021 - Conference on Machine Learning Techniques and Data Science

📍 Zurich, Switzerland 📅 Nov 20,2021

## EXTRA-CURRICULAR

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### IIT Rugby Team

#### Informatics Institute of Technology

Jul 2018 – Jul 2019

- Champions - Tap Rugby Tournament Inter House Sports Meet 2019

### IEEE Student Branch

#### Informatics Institute of Technology

Jul 2018 – Jul 2019

- Volunteer – IIT Student Hub of IEEE Extreme 12.0 (2018)

### Rotaract Club of IIT

#### Informatics Institute of Technology

Jan 2018 – Present

- Organizer - IRONMAN 2019, HacXmas 2019

## REFEREES

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### Senior Lecturer

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