# OSANDA HEMACHANDRA

## Undergraduate | Software Developer

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## WORK EXPERIENCE

### Associate Engineer - Technology

**Virtusa (Pvt) Ltd**

📅 Jan 2020 – Sep 2020  📍 Colombo, Sri Lanka

- Projects - Microservice Accelerator, DevSecOps
- Technologies & Tools - AWS, GCP, JHipster, Kompose, Anchore, OWASP ZAP, Django-DefectDojo, Arachni, AMI, Packer, Ansible, HAProxy

### Intern - Technology

**Virtusa (Pvt) Ltd**

📅 Jun 2019 – Dec 2019  📍 Colombo, Sri Lanka

- Projects - DevOps Dashboard, Era Insight
- Technologies & Tools - Java (Spring Boot), Maven, Angular8, Docker, ELK Stack, Kubernetes, Helm, Jenkins, Groovy, Anthos, NFS, Prometheus, Vagrant

## PROJECTS

### Multimodal Transport Data Analytics Platform

**Research Project | Machine Learning | Cloud | Microservices**

- Description – A microservices-based transportation related data integration and analytics platform
- Technologies & Tools – Java (Spring-boot), Python, Kubernetes, Docker, Machine Learning, GCP, JMeter, InfluxDB

### Sinhala Songs Search Engine

**Information Retrieval | Web | Text Search**

- Description – A search engine for Sinhala songs which supports both English & Sinhala queries. The engine supports both simple and advanced queries such as ranged queries, faceting
- Technologies & Tools – Elasticsearch, Solr, Flask, Docker, Docker-compose

### Ride Fare Classification

**Machine Learning | Classification**

- Description - A machine learning classification project that predicts whether the fare of a set of trips is correct or not. The dataset is from a taxi-hailing company
- Technologies & Tools – Machine learning classification, XGBoost, Random Forest, K-Nearest Neighbour, GridSearch, RandomSearch, Python, Jupyter Notebook, Colab

### SecurePass

**Mobile Application | Security**

- Description – Biometrics(fingerprint/ face ID) based password remembering mobile application
- Technologies & Tools – Java, Android Studio

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*"Seeking for opportunities in the fields of cloud computing & software engineering 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."*

## EDUCATION

### Department of Computer Science & Engineering

**University of Moratuwa**

- B.Sc. Engineering (Hon's) Degree

### G.C.E. Advanced Level

**St. Joseph Vaz College, Wennappuwa**

- AAA | D.R. - 01 | I.R. - 109

## TECHNICAL SKILLS

- Concepts & Fields

  Software Engineering  DevOps  Microservices  Cloud  CI/CD

- Programming Languages

  Java  Python  C++  C#

- Web Development

  PHP  JavaScript  Bootstrap

- Data Science

  Machine Learning  Deep Learning  Neural Networks  Computer Vision

- Database Tools

  MySQL  ElasticSearch  InfluxDB

- Cloud & DevOps Tools

  GCP  AWS  Docker  Kubernetes  Helm  Jenkins  Packer

- Support Tools

  Git  Jira  SonarQube  JMeter

## Buy & Secure

**E-Commerce | Web | Payment Integration**

- Description - An e-commerce web application along with a raffle draw capability, comprising separate functionalities to both user & admin panels.
- Technologies & Tools - MySQL, Bootstrap, JS, Flutterwave

## TicketAir - Air-Ticket & Flight Reservation System

**Database Systems | Web**

- Description - A complete database design and implementation of an airline ticket reservation system with seat booking, airline schedules & seat availability checking, etc, comprising separate functionalities to both user & admin panels.
- Technologies & Tools - MySQL, phpMyAdmin, HTML5, CSS, JS

## SySchool - School Management System

**Web | Multi-functional**

- Description - Web application for a school, The system allows computerizing the day to day work of a school including attendance, assignment submissions, registrations, etc.
- Technologies & Tools - PHP, MySQL, HTML5, CSS, JS

# CERTIFICATIONS

## AWS Fundamentals Specialization
**Amazon Web Services on Coursera**

## Blockchain Specialization
**University at Buffalo & The State University of New York on Coursera**

## IBM Microservices Specialization
**IBM on Coursera**

## Python for Data Science
**IBM**

## Machine Learning, Neural Networks, Deep Learning
**Stanford University on Coursera, Deeplearning.ai**

## Architecting with Google Kubernetes Engine Specialization
**Google Cloud on Coursera**

## Introduction to Cybersecurity
**Cisco Networking Academy**

# EXTRA-CURRICULAR

## Batch Representative – Department of Computer Science & Engineering
**University of Moratuwa**
📅 Dec 2019 – Present

## Assistant Head - Web & Technology Pillar
**MoraSpirit Initiative**
📅 Jan 2019 – Dec 2019

## Member - Softball Cricket Team
**VClub - Virtusa (Pvt) Ltd**
📅 Jun 2019 – Dec 2019

- Champions - SLASSCOM Cricket Carnival 2019

## Vocalist - Classical Music Society
**University of Moratuwa**
📅 Jul 2017 – May 2019

## Co-organizer - Decrypt (CSE Open Day & Ideathon)
**University of Moratuwa**
📅 Mar 2018

# REFEREES

**Dr. Adeesha Wijayasiri**
**Senior Lecturer**

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**Mr. Supun Bulathsinghala**
**Architect - Technology**

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