



Hashara Kumarasinghe

COMPUTER SCIENCE AND ENGINEERING UNDERGRADUATE

As a Computer Science and Engineering undergraduate from the University of Moratuwa, I have worked on web and mobile applications, and machine learning projects. I have done my internship at CodeGen International(Pvt) Ltd. I am seeking a challenging position where I can fully employ my experience and skills in Machine Learning, Computer Vision, and web/mobile development while contributing to the company's success.

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<https://github.com/Hashara>

WORK EXPERIENCE

CODEGEN INTERNATIONAL (PVT) LTD
(OCTOBER 2020 - MARCH 2021)

SOFTWARE ENGINEERING INTERN

- Implemented LDAP authentication for a project using Spring Boot
- Implemented database connections for MySQL and Oracle databases
- Enhancements for the existing functionalities for both user interface and backend level
- Implemented a dashboard using Oracle APEX
- Bug fixing

EDUCATIONAL HISTORY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,
UNIVERSITY OF MORATUWA
AUG 2017 - PRESENT

BSC ENG HONS

CURRENT GPA: 3.58

SPARK X PROFESSIONAL DEVELOPMENT PROGRAM
SPARK ACADEMY, SRI LANKA
MAR 2021 – SEP 2021

SKILLS SUMMARY

- Technical Fields**
Machine Learning | Computer Vision |
Web Development | Mobile Development |
Distributed System | Object-Oriented Programming
- PROGRAMMING LANGUAGES**
Java | Python | JavaScript | PHP
- WEB DEVELOPMENT**
NodeJs | Spring Boot | ReactJs | Angular |
WordPress | Oracle APEX | PHP | JavaScript |
Boostrtrap | HTML
- DATABASE**
MySQL | PostgreSQL | Firebase
- MOBILE DEVELOPMENT**
Flutter
- CLOUD**
Google Cloud Platform | Microsoft Azure

ACHIEVEMENTS

- BEST TEAM PROCESS**
Code with WIE: hackathon organized by IEEE WIE Sri Lanka Section
- WINNER**
Hackdown2020: coding competition organized by the IEEE WIE Student Affinity Branch of University of Moratuwa
- MORAXTEREME**
12 hours programming competition organized by University of Moratuwa
 - RANK: 14 RANK: 14 RANK: 63
MoraXtreme 5.0 MoraXtreme 4.0 MoraXtreme 3.0
- IEEEEXTREME**
24 hours programming competition organized by IEEE
 - GLOBAL RANK: 274 GLOBAL RANK: 464
IEEEExtreme 14.0 IEEEExtreme 13.0
 - GLOBAL RANK: 495
IEEEExtreme 12.0

PROJECTS

MULTI-MODEL RADIOGRAPHY ANALYSIS FRAMEWORK FOR PNEUMONIA AND COVID-19 (ONGOING)

Python | Tensorflow | Machine Learning | Computer Vision | Convolutional Neural Network

[View more details](#)

- A chest x-ray analysis framework can be used for Pneumonia and COVID-19 diagnosis
- **Publications** - S. Kolonne, H. Kumarasinghe, C. Fernando, D. Meedeniya, MobileNetV2 Based Chest X-Rays Classification, International Conference on Decision Aid Sciences and Application (DASA), Bahrain, 2021

DISTRIBUTED CHAT SYSTEM

Java

[View source code](#)

- A distributed chat application where clients can connect and join/ create/delete/leave rooms, and chat. We have used bully election algorithm for leader election and for detecting failures we have used heartbeat.
- **My Role** - I developed client requests for deleting room, room list, moving from a room, and joining for another room. Also done part of the bully algorithm.

PUMP IT UP: DATA MINING THE WATER TABLE

Python | Machine Learning

[View source code](#)

- An individual project for implementing a solution for [Pump it Up: Data Mining the Water Table](#) competition in [DrivenData](#). Followed pre-processing, encoding, feature engineering and used models like the Random Forest, Decision Tree, Gradient Boosting Classifier, XGBoost, and MLP Classifier

NCMS - WAKANDA

Java | Java Servlet | React | React-redux | PostgreSQL

[View backend source code](#) | [View frontend source code](#)

- A COVID management tool that has authentication, bed reservation, COVID statistic review. This applications' REST API was built using JAVA Servlet, the UI was built using React with React-redux, and PostgreSQL was used as the database.

ONLINE BUS BOOKING SYSTEM

NodeJS | Firebase

[View source code](#)

- A system for online bus booking which contains a web application and two mobile applications with REST API as the backend
- **My Role** - I developed the REST API by using NodeJs with Express and designed the database (Firebase) of the system.

EXTRA-CURRICULAR

WEBMASTER - IEEE STUDENT BRANCH UNIVERSITY OF MORATUWA 20/21

WEBMASTER - WOMEN IN ENGINEERING SYMPOSIUM 2020 AND 2021

Developed a website for [International Women in Engineering Symposium](#) using WordPress.

CREATIVE CONTENT TEAM MEMBER- IEEE SL SYW CONGRESS 2020

REFEREES