

Supun Abeysinghe

Computer Science and Engineering Undergraduate

A tech enthusiast who has a craving for coding. Has good analytical skills and ability to adapt to any technology in a quick succession. Likes working with the cutting edge plus enjoy research. Self-learner and loves algorithmic problem-solving. Possess research experience and passionate about the field of natural language processing and has experience in application development as well.



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🐙 smb564

🏠 <https://smb564.github.io/>

Education

University of Moratuwa [2014 – 2018]
BSc. Eng. in Computer Science and Engineering
Current **GPA 4.02** out of 4.2, Dean's list award for all semesters up to now (1,2,3,4,5, and 6)

Ranabima Royal College, Kandy
[2005 – 2013]
G.C.E. Advanced Level, 64th in Sri Lanka with Distinction (A) passes for Combined Mathematics, Physics, and Chemistry.

Chartered Institute of Management Accountants (CIMA) [2013 - 2014]
Completed Operational Level

WORK EXPERIENCE

Research Assistant [Jun. 2017 – Dec. 2017]
StatNLP Lab, Singapore
Conducted research in NLP and involved in implementing and testing StatNLP framework. Researched about structured prediction with non-decomposable loss, fake news detection using linguistic features and incorporating external evidence, deep learning and traditional machine learning approaches.

Teaching Assistant [Aug. 2018 – Present]
University of Moratuwa
Working as a teaching assistant for CS2022-Data Structures and Algorithms module

Freelance Developer [2016 – 2017]
Involved in application development projects as a freelance developer. Worked part time for igoagain.com and Lunahlabs (a service proving startup)

SKILLS

Programming Languages

Python Java C++ C C#

Web Frameworks

Angular AngularJS Spring-Boot node.js JQuery

Bootstrap

AWARDS AND ACHIEVEMENTS

IEEEExtreme v10.0 - Country Rank 3rd [2016] *(Team)*
IEEEExtreme is one of the largest worldwide competitive programming contests. Country rank – 3rd, Global rank - 106th

Implicit Emotion Detection Shared Task - 5th Place [2018] *(Team)*
Task was to predict the emotions expressed in text, without having explicit mentions of emotion related terms. Ranked 5th among contestants from top universities all around the world

DengAI: Predicting Disease Spread - 31st Place (Top 0.8%) [2018] *(Team)*
The task was to predict the number of Dengue cases recorded in two cities San Juan and Iquitos of Peru.

Code Breaker - Bethem Challenge - First Place [2016] *(Individual)*
24 hour competitive programming contest organized by 99x Technologies, Sri Lanka. Obtained **1st place** among 78 undergrads from universities island wide

MoraXtreme v1.0 Champions [2016] *(Team)*
An internal 12 hour competitive programming competition. Ranked 1st from 60 teams from university of Moratuwa

AcesCoders v6.0 Runners Up [2016] *(Team)*
All island 12 hour competitive programming contest for undergrads. Ranked 2nd out of 102 teams

HackerRank Contest - 1 Gold, 7 Silver, 5 Bronze [2016] *(Individual)*
HackerRank is an online competitive programming contest hosting platform. Medals awarding scheme – Gold - top 4%, Silver - top 8% and Bronze - top 13%

Databases

MySQL MongoDB

Machine Learning Frameworks

PyTorch Tensorflow Keras Scikit-learn Pandas

Interested Areas

NLP ML Deep Learning Compiler Design

Distributed Svstems Information Retrieval

PROJECTS

Social Media Analytics Platform [2018] (Final Year Project)

A platform which has the ability to *extract reviews* for any entity, *identify aspects/topics* discussed, find the *sentiment* expressed towards each aspect and *extract emotions* expressed in those reviews
(2 publications as of now)

PyTorch

Tensorflow

Keras

Python

Flask

Java

node.js

NLP

Deep Learning

IKASL Algorithm

GSOM

Sri Lanka Restaurant Reviews Search Index [2018]

A search index for a scraped set of restaurants reviews was built using Apache Solr

Apache Solr

Scrapy

Information Retrieval

Internship Portal [2017]

A SharePoint add-in for sending the CVs of interns to their selected companies

AngularJS

SharePoint JSOM

CV Feedback Portal [2016]

A web-based system where CVs of undergraduates are reviewed by the Alumni members of the department

JQuery

SharePoint JSOM

UniConnect [2017]

UniConnect is an academic resource sharing and opportunity seeking web system for undergraduate students

Spring Boot

AngularJS

MongoDB

Tank Game Client [2016]

A game client that will connect and play with a Tank Game server. A game playing AI and game graphics were implemented

C#

Unity

Min-max Algorithm

Energy Monitoring System [2016]

An online system to monitor energy consumption and an online portal to manage and perform customer transactions

AngularJS

node.js

MySQL

ERP System for Kandy Plastics PVT(LTD) [2016]

An ERP system which has the ability to manage the complete workflow of the company

Qt

C++

PUBLICATIONS

Prabod Rathnayaka, Supun Abeysinghe, Chamod Samarajeewa, Isura Manchanayake, Malaka Walpola (2018): Sentylic at IEST 2018: Gated Recurrent Neural Network and Capsule Network Based Approach for Implicit Emotion Detection

To appear in proceedings of 9th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis

Supun Abeysinghe, Isura Manchanayake, Chamod Samarajeewa, Prabod Rathnayaka, Malaka J. Walpola, Rashmika Nawaratne, Tharindu Bandaragoda, Damminda Alahakoon (2018): Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

To appear in proceedings of International Conference in ICT for Emerging Regions

VOLUNTEER EXPERIENCE

Secretary [2017]

Computer Society, IEEE Student Branch, University of Moratuwa

Involved in challenge creation for all island and intra university competitive programming contest, conducted several awareness sessions

PROFESSIONAL AFFILIATIONS

IEEE Student Member [2015-Present]

Institute of Electrical and Electronic is world's largest technical professional organization

IESL Student Member [2017-Present]

The Institution of Engineers Sri Lanka is the main governing body of engineers in Sri Lanka

REFERENCES

Dr. Malaka J. Walpola

PhD (FIU), MS (FIU), BSc Eng. (Hons) (Moratuwa)
Senior Lecturer at the Department of Computer Science and Engineering
University of Moratuwa
(Final Year Project group supervisor)