

Supun Abeysinghe

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Education

University of Moratuwa

BSC. ENG IN COMPUTER SCIENCE AND ENGINEERING

Sri Lanka

Nov. 2014 - Dec. 2018

- Current **GPA 4.06** out of 4.20
- Ranked 3rd from 123 students
- Dean's list award for all semesters (Should have a semester GPA of 3.8 or above to be in Dean's List)

Ranabima Royal College

HIGH SCHOOL

Kandy, Sri Lanka

2005 - 2013

- G.C.E. Advanced Level, 5th in Central Province and 64th in Sri Lanka out of 35000+ candidates with Distinction (A) passes for Combined Mathematics, Physics, and Chemistry.

Work Experience

Research Engineer

WSO2 Inc.

Colombo, Sri Lanka

Jan. 2019 - Jul. 2019

- Conducting research on using machine learning techniques to enhance the efficiency of self adaptive (auto tuning) systems which has the ability to configure and reconfigure itself to achieve optimum performance.

Research Assistant

STATNLP LAB, SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN (SUTD)

Singapore

Jun. 2017 - Dec. 2017

- Researched in the field of Machine Learning, particularly in Natural Language Processing domain.
- Researched structured prediction with a non-decomposable loss, fake news detection using linguistic features and incorporating external evidence, deep learning, and traditional machine learning approaches.

Visiting Instructor

UNIVERSITY OF MORATUWA

Sri Lanka

Aug. 2018 - Dec. 2019

- Working as a teaching assistant for CS2022-Data Structures and Algorithms module
- Responsible for conducting labs

Freelance Developer

SELF-EMPLOYED

2016 - 2017

- Involved in application development projects as a freelance developer.

Publications

ADAPT-T: An Adaptive Algorithm for Auto-Tuning Worker Thread Pool Size in Application Servers

NILUSHAN COSTA, MALITH JAYASINGHE, AJANTHA ATUKORALE, **SUPUN ABEYSINGHE**, SRINATH PERERA, ISURU PERERA

2019

International Symposium on Computers and Communications (ISCC), Barcelona, Spain [to appear]

Sentylic at IEST 2018: Gated Recurrent Neural Network and Capsule Network Based Approach for Implicit Emotion Detection

PRABOD RATHNAYAKA, **SUPUN ABEYSINGHE**, CHAMOD SAMARAJEWA, ISURA MANCHANAYAKE, MALAKA WALPOLA

2018

9th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis, Brussels, Belgium

Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

SUPUN ABEYSINGHE, ISURA MANCHANAYAKE, CHAMOD SAMARAJEWA, PRABOD RATHNAYAKA, MALAKA J. WALPOLA,

2018

RASHMIKA NAWARATNE, THARINDU BANDARAGODA, DAMMINDA ALAHAKOON

Proceedings of International Conference on Advances in ICT for Emerging Regions, Colombo, LK.

Honors & Awards

- 2018 **Dean's List Award**, Dean's list award for all semesters (Should have a semester GPA of 3.8 or above to be in Dean's List)
- 2014 **Mahapola Scholarship Recipient**, Awarded by the Government of Sri Lanka for most outstanding students in G.C.E Advanced Level

Competition Awards

- 2018 **World Rank - 60 (Top 1.5%), Country Rank - 01**, IEEEExtreme v12.0 - IEEEExtreme is one of the largest worldwide competitive programming contest
- 2018 **5th Place**, Implicit Emotion Detection Shared Task, Organized as part of WASSA 2018 at EMNLP 2018
- 2018 **31st Place (Top 0.8%)**, DengAI: Predicting Disease Spread task, task was to predict the number of Dengue cases recorded
- 2018 **Champions**, MoraXtreme v3.0 - An internal 12 hour competitive programming competition
- 2016 **World Rank - 106 (Top 5%), Country Rank - 03**, IEEEExtreme v10.0 - IEEEExtreme is one of the largest worldwide competitive programming contest
- 2016 **First Place**, Code Breaker - Bethem Challenge: An island wide, 24 hour competitive programming contest organized by 99x Technologies, Sri Lanka.
- 2016 **Champions**, MoraXtreme v1.0 - An internal 12 hour competitive programming competition
- 2016 **Second Place**, AcesCoders v6.0: All island 12 hour competitive programming contest for undergrads. Ranked 2nd out of 102 teams

Skills

Programming Languages	Python, Java, JavaScript, C++, C
Web Frameworks	Angular, AngularJS, JQuery, Node.js, Spring-boot, Bootstrap, Jhipster
Databases	MySQL, MongoDB
Machine Learning Frameworks	PyTorch, Scikit-learn, Keras, Tensorflow
Interested Areas	Machine Learning, Natural Language Processing, Deep Learning, Information Retrieval, Programming Languages, Distributed Systems

Projects

Enhancing Decision Making Capacity in Tourism Domain Using Social Media Analytics

[HTTPS://GITHUB.COM/SENTYLIC](https://github.com/sentylic)

2018

- 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 and visualize the insights (Research Project)
- Used Technologies: PyTorch, Keras, Tensorflow, Python, Flask, Java, Node.js
- Machine learning based research project

Sri Lanka Restaurant Reviews Search Index

[HTTPS://GITHUB.COM/SMB564/CS4642-IR-RESTAURANTS](https://github.com/SMB564/CS4642-IR-RESTAURANTS)

2018

- A search index for a scraped set of restaurants reviews was built using Apache Solr. Information Retrieval techniques have been employed to improve the performance of the retrieval model.
- Used Technologies: Apache Solr, Scrapy
- Information retrieval based project

Peer to Peer File Sharing System

DISTRIBUTED SYSTEMS MODULE PROJECT

2018

- A distributed P2P file sharing system which has an unstructured P2P overlay network
- Used Technologies: Python

Career Fair - CV Portal

[HTTPS://GITHUB.COM/SMB564/CAREER-FAIR](https://github.com/SMB564/CAREER-FAIR)

2018

- A SharePoint add-in for sharing CVs of final year students with the industry prior to the career fair.
- Used Technologies: Share-Point, JavaScript, AngularJS

Internship Portal

[HTTPS://GITHUB.COM/SMB564/INTERNSHIP-SHAREPOINT-ADDIN](https://github.com/SMB564/INTERNSHIP-SHAREPOINT-ADDIN)

2017

- A SharePoint add-in for sending the CVs of interns to their selected companies. Currently hosted at department SharePoint site.
- Used Technologies: Share-Point, JavaScript, AngularJS

CV Feedback Portal

[HTTPS://GITHUB.COM/SMB564/CV-FEEDBACK-SHAREPOINT-ADD-IN](https://github.com/SMB564/CV-FEEDBACK-SHAREPOINT-ADD-IN)

2016

- A web-based system where CVs of undergraduates are reviewed by the Alumni members of the department. Currently hosted at department SharePoint site.
- Used Technologies: Share-Point, JavaScript, AngularJS

UniConnect System

[HTTPS://GITHUB.COM/SMB564/UNICONNECT](https://github.com/SMB564/UniConnect)

2016

- UniConnect is an academic resource sharing and opportunity seeking web system for undergraduate students
- Used Technologies: Java Spring-Boot, AngularJS, MongoDB, JHipster

Tank Game Client

[HTTPS://GITHUB.COM/SMB564/TANK-GAME](https://github.com/SMB564/TANK-GAME)

2016

- A game client that will connect and play with a Tank Game server. A game playing AI and game graphics were implemented
- Used Technologies: C#, Unity

Energy Monitoring System

[HTTPS://GITHUB.COM/SMB564/ENERGY-MONITORING-SYSTEM](https://github.com/SMB564/ENERGY-MONITORING-SYSTEM)

2016

- An online system to monitor energy consumption and an online portal to manage and perform customer transactions
- Used Technologies: AngularJS, Node.js, MySQL

ERP System for Kandy Plastics PVT(LTD)

2016

- An online system to monitor energy consumption and an online portal to manage and perform customer transactions
- Used Technologies: Qt Framework, C++

Volunteer Experience

Secretary

Sri Lanka

COMPUTER SOCIETY, IEEE STUDENT BRANCH, UNIVERSITY OF MORATUWA

2017

- Involved in challenge creation for all island and university level competitive programming contest
- Conducted awareness sessions and talks

Professional Affiliations

IEEE Student Member

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

2015 - PRESENT

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

IESL Student Member

INSTITUTION OF ENGINEERS SRI LANKA

2016 - PRESENT

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

References

Dr. Malaka Walpola

SENIOR LECTURER, UNIVERSITY OF MORATUWA

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Dr. Charith Chitraranjan

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Dr. Uthayasanker Thayasivam

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