LAHIRU VITHANAGE
COMPUTER SCIENCE & ENGINEERING

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Passionate and enthusiastic individual who expect to provide maximum for the furtherance of organization while continuously expanding breadth and depth of my skills toward the industry.

EDUCATION AND EXPERIENCE

SOFTWARE ENGINEERING INTERN
CodeGen International (Pvt) Ltd
July 2018 - December 2018

UNDERGRADUATE | BSc ENGINEERING | University of Moratuwa
Department of Computer Science & Engineering
Overall GPA - 3.36
November 2015 onwards

STUDENT | COMPREHENSIVE MASTER JAVA DEVELOPER
Institute of Java Software Engineering
January 2015 - September 2015

STUDENT | MAHINDA COLLEGE GALLE
GCE Advanced Level Examination | 3 A's | Island rank 90
July 2012 - August 2014

PROJECTS

MODELING CONTOUR INTEGRATION IN PRIMARY VISUAL CORTEX
(final year research project)
Spiking neural network model simulated to demonstrate the early stage of the visual perception process take place in primary visual cortex of the mammalian brain. Neural network architecture consists of natural circuit structures of cortical layers. Spike-Time Dependant Plasticity (STDP) is used as the learning rule to enable neural network's plasticity and learn contours.
[Anaconda, Brian2, Python, aspects of image processing]

DENG-AI
(competition hosted by DrivenData)
Predict number of dengue cases each week in two cities based on given set of environmental variables. Used separate regression approach to predict missing values in the dataset and appropriate set of feature variables were dynamically selected.
[Anaconda, Python, stats-models, XGBoost]

REVENUE MANAGEMENT SYSTEM
Plot a booking curve and a demand curve for a travel agency using OLAP data cube. Deep learning model monotonic (non-increasing) property is used to predict cumulative number of bookings for each week.
[OLAP cubes, MySQL, AngularCLI, Anaconda, Python, Tensorflow Lattice]

EXPENSE DIARY
Mobile application to keep track of daily financial transactions. User can log his/her transactions details and applications is capable of formulating helpful remainders and predictions.
[Android, SQLite]

TEMPERATURE FORECAST - INDIA
Predict monthly average temperatures in India, with aid of statistical time series models. Non-stationary raw datasets were preprocessed to stationarize and handle inconsistencies prior to training.
[Anaconda, Python, ARIMA models]

YATHRA - MUSIC SCHOOL
Web based solution for the management purposes of a music school. Timetable management and CRUD operations regarding students, instruments, teachers and exams. RESTful backend API and responsive Angular-Material frontend.
[AngularCLI, ExpressJS, MySQL, Angular-Material]

ARALIYA BILLING SYSTEM
Web based invoice management system for a bookshop. RESTful backend API.
[AngularCLI, ExpressJS, MySQL, Bootstrap]

EXPORT DOCUMENT MANAGER
Java stand-alone application for managing documents related to shipments in a company warehouse. Complete procedure from making invoice to release payment receipt.
[Java, Jasper-report]

EXTRA CURRICULAR ACTIVITIES

LEO CLUB OF UNIVERSITY OF MORATUWA
Member (2017 onwards) | Director of IT (2017 - 2018)

MEMBER | UNIVERSITY ROAD RACE TEAM
Inter university games 2017 | BOOSTER 2017 - NSBM open day (3rd place)

STUDENT MEMBER | IESL STUDENT BRANCH

SKILLS

LANGUAGES
[Java, JavaScript, Python, SQL, C++]
WEB DEVELOPMENT
[HTML, Bootstrap, AngularCLI, Spring, ExpressJS, NodeJS, Django]
OTHER
[Android, Anaconda, Brian2, Tensorflow, XGBoost, ElaticSearch, CUDA]

REFERENCES