ABHIJITH RAMALINGAM

Programming Enthusiast | Aspiring Engineer | Energetic Learner
Passionate about Data Science & Software Engineering

Email : a2ramali@uwaterloo.ca
Website : abhijith1995.github.io
GitHub : github.com/Abhijith1995
LinkedIn : ca.linkedin.com/in/abramalingam

TECHNICAL

PROGRAMMING

GENERAL

Java • Python • C# • C++

FRONT END

HTML • CSS • JavaScript

TOOLS

LIBRARIES/FRAMEWORKS

jQuery • AngularJS • Flask

TESTING TOOLS

Protractor • Karma • Jasmine

DATABASE

MySQL • MongoDB

DATA ANALYSIS

R • Pandas • Numpy • Matplotlib

OTHER

MapReduce • Hadoop
scikit-learn • Machine Learning
Statistical Inference • D3.js •

EDUCATION

UNIVERSITY OF WATERLOO
BASc in Mechatronics Engineering
Expected Graduation: May 2018
DUBAI MODERN HIGH SCHOOL
Graduated in 2013, 97.75% average

COURSEWORK

Certified online courses

Wharton School
Intro to Financial Accounting
Georgia Tech
Computational Investing
Johns Hopkins University
R Programming
Exploratory Data Analysis
Getting and Cleaning Data
Data Scientist's Toolbox

Audited online courses

Stanford University
Machine Learning
Yale University
Game Theory
Udacity
Intro to Machine Learning
Intro to Data Science
Intro to Hadoop and MapReduce

At University

Statistical Analysis (ongoing)
Data Structures and Algorithms

SUMMARY OF QUALIFICATIONS

- Strong understanding of Object-Oriented Programming and SDLC gained through work experience.
- Knowledge of Algorithms, Web Development and Data Mining from online courses
- Good teamwork and communication skills from workshops, group projects and hackathons.

WORK EXPERIENCE

JavaScript Developer | Sep-Dec 2014 | Markham,ON — HubHead Corp.

- Detected server-side bugs by managing automated test suites on a continuous integration server.
- Performed unit and end to end tests on a cloud-based product by writing browser automation scripts.
- Improved user functionality by writing bug fixes.
- Engaged in the SDLC using agile methodologies to build a scalable data quality solution.

Technologies used : JavaScript • AngularJS • Git • Karma • Protractor • Jasmine • Jenkins

R&D Team Member | Jan-April 2014 | Ottawa,ON — Protecode Inc.

- Downloaded over 100,000 projects into a relational database from code hosting websites like Github and SourceForge by devloping web crawlers.
- Reduced processing time by 25% of an internal data mining tool by optimizing its SQL queries, thereby allowing projects to be added faster to the main database.
- Migrated internal company databases by writing maintainable data-acquisition software services.

Technologies used : C# • .NET Framework• MySQL • PostgreSQL • Linux • MS Excel • RegEx • SVN

</> PROJECTS

Market Simulator

- Built a stock market simulator by accessing historical data from Yahoo Finance API.
- Analyses a given portfolio's performance by simulating stock trades over a fixed time period
- Applications include performance evaluation of algorithmic trading strategies and portfolio management.

Technologies used : Python • Pandas • SciPy • Numpy • Matplotlib

New York Subway Data Analysis

- Analysed NYC Subway and Weather data from external APIs to discover interesting patterns.
- Applied statistical analysis techniques, machine learning, visualisation libraries and MapReduce to mine and understand a large data set.

Technologies used :• Python • Pandas • scikit-learn • Numpy • Matplotlib • MapReduce

TransitCheck

- Developed the front end for a web application which alerts TTC users of situational delays.
- Built a web crawler to routinely acquire information about TTC services which was then stored in a NoSQL database for fast retrieval.

Technologies used : HTML/CSS • JavaScript • Node.js • Java • MonogoDB • Bootstrap

Braillestorm

- Led a team which won the National Robot Olympiad(Dubai) by building and programming a robot with an easy to use interface for visually impaired people to print Braille.

Technologies used : LEGO Mindstorms • C++

Rubik's Cube Solver

- Made a Java program which accepts numbers as inputs for faces of a rubik's cube and then generates steps to solve the cube.

Technologies used : Java