

Melarkode Adityan

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EDUCATION

B.S. COMPUTER SCIENCE

B.A. MATHEMATICS

STATE UNIVERSITY OF NEW YORK

UNIVERSITY AT BUFFALO

GPA 3.874 out of 4.0

Continually in Dean's List

Expected Dec 2017 | Buffalo, NY

BITS PILANI - INDIA

MATHEMATICS MAJOR

Undergraduate transfer program

LINKS

Website:// msadityan.com

Github:// [DrAwkward2592](https://github.com/DrAwkward2592)

LinkedIn:// [msadityan](https://www.linkedin.com/in/msadityan)

COURSEWORK

Cybersecurity

Data Oriented Computing

Machine Learning

Programming Languages

Theory of Computation

Digital Systems

Computer Organization

Data Structures

Software Engineering

Numerical Analysis

Discrete Mathematics

Graphs and Networks

Linear Algebra

Operations Research

Optimization

Elementary Real Analysis

Differential Equations

Integral Equations

Probability and Statistics

SKILLS

Java, Python, Scala, C++, HTML, CSS, DynamoDB, Git, Vim, Shell Scripting, Numpy, Scikit Learn, SQL, Web API, TCP/UDP, Socket Programming, Adobe Photoshop, After Effects, Ionic Framework, Android

AWARDS

KVPY Scholarship from Govt. of India
Black belt in Karate

EXPERIENCE

AMAZON

SOFTWARE ENGINEERING INTERNSHIP | SEATTLE, WA

May 2017 – Current

- Working with security intelligence team under the information security group
- Building a service that manages metadata for very big data regarding security logs and breaches. This service will be consumed by various internal services within the Information security group.

TRADING TECHNOLOGIES INTERNATIONAL INC

SOFTWARE ENGINEERING INTERNSHIP | CHICAGO, IL

June 2016 – August 2016

- Created automated unit tests based on the company's algorithmic trading product and increased test coverage by 80%,
- Created and deployed custom algorithmic trading algorithms.
- Extended the framework to add more unit testing functionalities.

STATE UNIVERSITY OF NEW YORK AT BUFFALO

RESEARCH ASSISTANT | BUFFALO, NY

Feb 2016 - June 2016

- Wrote scripts to analyse power usage by WiFi and GPS on Android OS.
- The scripts were used on a new implementation to accurately account for the asynchronous usage of resources in mobile systems.

GOOGLE SUMMER OF CODE 2015

SOFTWARE ENGINEERING INTERNSHIP | VADODARA, INDIA

May 2015 – Aug 2015

- Selected as one of the 1051 students from 73 countries in the world.
- Developed support for constellation artwork in KStars in C++ and Qt Framework
- All code was reviewed, perfected, and pushed to KStars' git repository.

PROJECTS

HANDWRITING CLASSIFIER

Python, Numpy, Scipy

Implemented a handwriting classifier using a multilayer perceptron. It produced a 97% accuracy using 50,000 images from the MNIST database.

RELIABLE TRANSFER PROTOCOLS

C++, TCP/UDP Socket programming

Implemented Alternating bit, Go back N and Selective repeat protocols using UDP sockets.

TUTR

Django Rest Framework, Python, AngularJS, Ionic Framework

An app to match students to tutors for tutoring sessions with support for payment integration with PayPal, and ability to login with Facebook OAuth.

ANALYZING NAMING TRENDS IN USA

Python, Numpy, Matplotlib, Scipy, PyLab

Used python data wrangling to find interesting trends in baby names in the USA since 1800.