# Aditya Kishan Ankaraboyana

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## Education

**University at Buffalo** Buffalo,NY
BS Computer Science Expected Grad: December 2018 — GPA: 3.3 — Dean's List , Sp.2018

## Experience

**NimbleDroid, Inc.** **New York,NY**
***Software Engineering Intern*** **June 2018 — August 2018**

- Responsible for comprehensive quality assurance via black box testing, for the Android and IOS products, using proprietary testing frameworks like Espresso and XCUITest and external frameworks like Appium. Rewrote Android tests in pure Kotlin to check Espresso's API support for Kotlin.
- Worked on building a proof of concept for the network trace feature for the IOS product by writing scripts in Python. Researched about port forwarding rules for setting up transparent proxy servers to redirect network traffic to dedicated ports.
- Reverse Engineered a parser by leveraging Xcode's Instruments API's to parse data for the profiler to analyze Memory Usage, Network Activity, Disk IO and a Call Stack of Threads and Functions using tools like class-dump and Hopper.

**Autograder - University at Buffalo** **Buffalo,NY**
***Developer*** **June 2017 — August 2017**

- Worked on an open source project used for course management, originally developed by Carnegie Mellon University(CMU).
- Developed and implemented a maximum function to allow the instructor to choose the maximum score instead of the latest score obtained across multiple submissions by a student for a given assignment.

## Projects

**MoodMatch** **February 2018**

- Used React and Express to create a music player that works with the Spotify API.
- Functionality - on the website the user selects four different moods depending on how he/she is feeling and then a playlist is created to match their mood.
- Algorithm - used a community driven average probability algorithm to qualify a song as a fit for the playlist. First the algorithm randomizes the input and then looks for the highest valued songs within the playlist.
- Created a router that authenticates the user with the API and redirects to the frontend.

**Blog** **January 2018**

- Used the Python-Flask framework to create a simple blog website.
- Used MongoDB to store the blog data and associate the blogs with the users.
- Set up a login system that was secure for users to register or sign in.

**BMI(Body Mass Index) Calculator** **December 2017**

- Used the Python-Flask framework to create a simple BMI calculator application.
- Used the Jinja2 templating engine to take in the height and weight of a person as inputs and then give out the BMI as the output.
- Set up a Mongo database to keep track of users and their BMI information which automatically displayed latest user data upon subsequent logins.

## Courses — Skills

Courses - Data Structures • Programming Languages • Algorithms • Operating Systems

Skills - C++/C • JavaScript • Java • Lansweeper • Git • Ruby • Python • HTML/CSS

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