

# Vaibhav Sharma

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## EDUCATION

### BOSTON UNIVERISTY

MS IN COMPUTER SCIENCE  
Expected Dec 2018 | Boston, MA

### DELHI UNIVERISTY

BTECH IN COMPUTER SCIENCE  
July 2013- June 2017 | Delhi, India

## LINKS

Github:// [vaibhav19sharma](#)  
LinkedIn:// [vaibhav19sharma](#)  
Website:// [vaibhavsharma.net](#)

## COURSEWORK

### GRADUATE

Advanced Algorithms  
Formal Methods for High-Assurance SE  
Graduate Databases

### UNDERGRADUATE

Android Development  
Operating Systems  
Artificial Intelligence  
Theory of Computation  
Computer Graphics  
Information Security  
Discrete Structures

## SKILLS

### PROGRAMMING

Python • C++ • Javascript • MySQL  
Flask • HTML • Java • SAT Solver/ Z3  
• Android • Mathematica •  $\text{\LaTeX}$   
• MongoDB

## PROJECTS

### TWEET SCRAPING WITH TWEETPY AND PYMONGO | PYTHON BASED APPLICATION TO RUN STATISTICAL MONGODB QUERIES ON SCRAPED DATA

December 2017 | Boston, MA

- Worked on scraping real time twitter tweets by filtering geo coordinates and country so as to make them region specific
- Scraped data retrieved in JSON was stored in MongoDB.
- PyMongo was used to execute the necessary MongoDB queries.

### LINEAR REGRESSION IN PYTHON USING PANDAS | PREDICTION OF STOCK PRICES BASED ON THEIR PAST RATES

Oct 2017 - Present | Boston, MA

- Predicted prices of stocks using linear regression in python. Used **AlphaVantage** for real time stock data.

### PHOTOSHARE | IMAGE SHARING WEB APP USING FLASK ON PYTHON AND MYSQL DATABASE

Sept 2017 - Oct 2017 | Boston, MA

- Worked on creating use cases such as User management, Album and Photo management, Top Users, \*You may also like\* etc.

### INTERNET OF THINGS | REMOTELY CONTROL A BUZZER

Jan 2017 - March 2017 | Delhi, India

- Worked in a team of 5 to create a prototype for remotely controlling electronic appliances. We controlled a LED Buzzer's brightness using HTML control options.
- Worked on the Arduino code for the buzzer and documented the whole project.

### LOCATION SEARCH | ANDROID APP TO SEARCH NEARBY PLACES

July 2016 - Oct 2016 | Delhi, India

- Worked on creating an android based application to detect a users location using Google Maps API and then search for places in 5km radius based on the user input.
- Created the UI for android app and implemented Google Maps functionality.

## RESEARCH - PROGRAMMING AND PAPERS

### PROGRAMMING - DIFFERENTIAL EQUATIONS

June 2016 - July 2017 | IIT, Delhi, India

Worked as a trainee for Mr.H.K. Malik, professor, IIT-Delhi for 4 weeks. The training focused on developing a C++ code for solving Korteweg-de Vries differential equations.

### PROGRAMMING - ROBOTICS Jan 2016 - June 2016 | Haryana, India

This project focused on developing a robot to change its path if any object came in its way. My role in this was to help students get thorough with coding principles and fix the errors in the program.