

# Prateek

**Bhatnagar**  [www.prateekbhatnagar.me](http://www.prateekbhatnagar.me)  [pbhatna3@jhu.edu](mailto:pbhatna3@jhu.edu)

## EDUCATION

### JOHNS HOPKINS UNIVERSITY

Baltimore, MD  
2017-Present

Masters of Science and Engineering  
Computer Science

Research Interests - Computer Vision, Robotics & Machine Learning

### VIT UNIVERSITY

NCR, India  
2013 – 2017

B.Tech. Computer Science and Engineering  
GPA: 3.90

## EXPERIENCE

### BEL -INDIA

NCR, India  
JUN 2014 –JUL 2014

#### Software Engineering Intern

- Built a Java program to backup and restore configuration of Cisco and Juniper Switches and routers over a SSH connection on a Local Area Network

### ENINOV

NCR, India  
JUL 2015 –DEC 2015

#### Software Engineering Intern(Remote)

- Implemented a C++ Module to establish a TCP connection between server and client using a SSL protocol

### RESEARCH EXPERIENCE

VIT, India  
JUL 2015 –DEC 2015

#### Image Processing Research Assistant

- Studied K-Means and Constrained K-Means Algorithms in Image processing
- Designed MATLAB code to implement K-means and Constrained K means on a fused satellite image

### B3 INTELLIGENCE

Delhi, India  
JUN 2016 – JUL 2016

#### Software Development Intern

- Used C# & python [Django] to develop multithreaded applications used by Big Data Analysts for cleaning raw data.

## RESEARCH

### ACCEPTED

International Journal of  
Pharma &Bio Sciences

Image Processing - Detecting tumors in MRI scans of brains using thresholding

### REVIEW

Cloud based patient monitoring system with optimization support for Healthcare Institutions

### REVIEW

Optimisation of digital advertising in shopping complexes using trends identified from human activity heat maps.

## PROJECTS

### G I T H U B

[github.com/Lalbadshah](https://github.com/Lalbadshah)

- Voice controlled home automation system that uses basic Natural language processing on an Arduino to toggle home appliances on and off.
- Image processing module for laser guided landing system of a quad copter drone
- Using Python -Renaming files in windows, simple text processor to check for profanity and Sending a text message using an online API called Twilio
- Working with Arduino to build some IOT applications integrating with a cloud platform
- Design for Specialized phonetic keyboard to enable mutes to communicate
- Used Django to automatically create a local Database of movies and videos on a PC that the user can easily search through.
- Used Python to create backend software for controlling a hacked toy drone

## SKILLS

### H I G H L Y   S K I L L E D

C, C++,C#, python WEB- Django, HTML,CSS,PHP

### P R O F I C I E N T

MATLAB, JavaScript(Prior Experience),JAVA(Prior Experience)