

# PRATIK SATANI

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## Summary

Actively seeking internship from summer 2017 in broad areas of Computer Science to gain hands-on experience.

## Work Experience

### MATLAB Intern

June 2013 – June 2014

#### Gangotri Dhatu, INDIA.

- Developed a computer program in MATLAB that does non-contact physical measurements based on image processing and by employing Euclidean distance formula.
- Developed Graphical User Interface(GUI) in MATLAB to make it user friendly.

### Telecom Engineer

June 2014 - Feb 2015

#### Reliance Jio Infocom, INDIA

· Trainee Engineer in the communication field and worked on the India's first 4G LTE project.

## Education

### MSCS | May 2018 (expected) | The University of Texas at Dallas, USA

GPA – 3.47

- Major: Data Science & Computer Networks
- Related coursework: Advanced Computer Networks, Database Systems, Algorithm design and analysis, Data Structures, Statistical Methods.

### BE | June 2014 | Gujarat technological university, India

GPA – 8.93/10

- Major: Electronics & Communication
- Related coursework: Object Oriented Computer Programming Wireless Communication, Analog & Digital Communication, Digital Signal Processing, Data Communication & Networking, Microprocessor & Microcontroller, Analog & Digital Electronics

## Technical Skills

**LANGUAGE:** JAVA, PYTHON, C, C++

**WEB DESIGNING:** JAVASCRIPT, HTML, BOOTSTRAP, XML

**DATABASES:** MYSQL

**SOFTWARE TOOLS:** ECLIPSE, NETBEANS, MATLAB, MICROSOFT OFFICE

**OPERATING SYSTEMS:** WINDOWS, UNIX (MAC OS X) AND LINUX

**CERTIFICATION:** CCNA (CISCO CERTIFIED).

## Projects

### BATCH FILE PROCESSOR IN JAVA

- Designed a batch file processing application that processes XML batch files
- Capable of processing single/multiple command batch with streams, multiple command batch with pipes

### Senior Project: Estimation of physical dimensions of a remote object using MATLAB

- Designed a system to process the image of target object, and calculate height, width, area and circumference
- Wrote a script in MATLAB for automating the processing of a large set of noisy images

### ADAPTIVE NOISE FILTER IN MATLAB FOR LUNAR ECLIPSE IMAGES

- Designed and implemented a filter to reduce salt-pepper noise from lunar eclipse images taken with small personal telescope
- Wrote a script in MATLAB for automating the processing of a large set of noisy images.

### USER INTERFACE FOR DEMONSTRATING THE VISUAL REPRESENTATION OF SQUARE WAVE FORMATION

- Developed a user interface in MATLAB for demonstrating step-by-step visual construction of a square wave by additive sinusoidal functions

### MUSIC FROM THE IRRATIONAL NUMBER $\pi$

Developed a MATLAB code for a small code competition to efficiently compute  $\pi$  to a given decimal point and mapping the digits on a musical scale to produce an mp3 melody file that has the musical notes based on the digits of the number  $\pi$