

## EDUCATION

### Nanyang Technological University (NTU)

B. Eng. in Computer Science | Singapore  
Aug 2014 - Dec 2018 (Expected)  
Cum. GPA: 4.65/5.0 | Major GPA: 4.98/5.0

### University of Waterloo

Exchange Semester | Waterloo, Canada  
Jan-May 2016  
Gained tremendous cultural exposure and built an international network

### La Martiniere Boys College

Grad. May 2014 | Lucknow, India  
Higher Secondary Score: 97.75%  
High School Score: 95.6%

## COURSEWORK

Data Structures and Algorithms  
Advance Topics in Algorithms  
Operating Systems  
Artificial Intelligence  
Neural Networks  
Computer Vision

## SKILLS

### Programming

Java • Python • JavaScript • Matlab

### Web and App Development

HTML5 • CSS • jQuery • Bootstrap •  
Django • React • Android

### Deep Learning

Caffe • TensorFlow • Keras • PyTorch

### Others

Git • Bash •  $\LaTeX$  • Photoshop

## AWARDS

### 3<sup>rd</sup> Prize

Accenture Hackathon Singapore | 2015

### Dean's List

NTU Year 1 | 2014-15

### NTU Science and Engineering Undergraduate Scholarship

NTU | 2014 - 2018

## SOCIETIES

### NTU Students Union (NTUSU)

IT Director | 2015-16

- Led a team of 6 students to redesign and create a new NTUSU website.
- Developed a website for the Union shop to enhance student experience.

### NTU Model United Nations & Red Cross Youth Design Team | 2014-16

Designed the posters, flyers, t-shirts and lanyards for the events

## EXPERIENCE

### Google Summer of Code | Student Developer

May 2017 - August 2017

- Worked with the CloudCV organization on a project named Fabrik(a tool for building and visualizing neural networks).
- Redesigned UI/UX, added support for 35 layers for Caffe framework, 60 layers of Keras framework and functionality to share models.
- Added continuous integration, automatic code coverage check and increased code coverage from 0 to 97%.
- All code was pushed into production and increased the GitHub followers of the project by 18 times.

### Video Analytics Lab | Research Intern

August 2016 - May 2017 | IISc, Bengaluru, India

- Worked on multiple research problems which apply deep learning approaches to computer vision tasks.
- Authored two papers(more details in Research section).

### Newgen Software | Project Intern

May 2015 - July 2015 | New Delhi, India

- Created a web based application to create custom forms in which the appearance and location of each field can be customized.
- Intended to generate forms that replace the conventional forms used in financial institutions.

## RESEARCH

### Fast Feature Fool | Research Paper

A data independent approach to universal adversarial perturbations

Mopuri, K.R.\*; Garg, U.\* and Radhakrishnan, V.B.(\*=equal contribution)

- Proposed a way to optimize universal adversarial perturbations without access to the target dataset.
- Accepted at British Machine and Vision Conference(BMVC), 2017.

### CNN Fixations | Research Paper

An unraveling approach to visualize the discriminative image regions

Mopuri, K.R.\*; Garg, U.\* and Radhakrishnan, V.B.(\*=equal contribution)

- Proposed a way to visualize predictions of deep neural networks.
- Paper submitted in August 2017.

## PROJECTS

### Action Recognition from Videos | Final Year Project

August 2017 - May 2018 (Expected) | NTU

- Developing deep learning models to perform action recognition on videos.
- Will be applied to determine the affective state of a programmer.
- Planning the collection of data for recording the video of students while programming.

### Maze Solving Robot | Multi-disciplinary Project

August 2017 - December 2017 (Expected) | NTU

- Working in a team of 8 people to develop a maze solving robot.
- Developing the algorithm to firstly explore the maze and to then take the fastest path from start to goal.

### Drone Gesture Control | Undergraduate Research Experience on CAmpus (URECA)

August 2015 - May 2016 | NTU

- Created a touch based UI and integrated it with the LEAP motion controller to simultaneously control multiple quad-copters using hand gestures.

### Tripsy | Accenture Hackathon Singapore

August 2015 | Singapore

- Developed an app for companies to organize travel for their employees.
- Won the 3rd prize for the app.