

# Udit Arora

udita@iiitd.ac.in | uditarora.com | LinkedIn: uditarora09 | GitHub: uditarora

## EDUCATION

### NETAJI SUBHAS INSTITUTE OF TECHNOLOGY UNIVERSITY OF DELHI

B.E. IN COMPUTER ENGINEERING  
May 2016 | Delhi, India

## AWARDS

### INTL. ASSESSMENT FOR INDIAN SCHOOLS BY UNSW | 2007

- Highest marks in CS in Delhi

### MATHS MIND | 2008

- Ranked fourth

### MERIT SCHOLARSHIP

- For academic performance in  
3rd & 4th year of undergraduate

## INTERESTS

### COMPETITIVE CODING

#### CODECHEF FEB15 CHALLENGE

- Highest score in India for  
challenge problem

#### SPOJ

- Solved 200+ problems

#### ACM ICPC 2015

- Chennai regional finalist, in  
top 5% among 1500+ teams

### MOOCS

Introduction to Linux

Algorithms: Design & Analysis

Machine Learning

Deeplearning.ai Specialization

Convolutional Neural Networks for

Visual Recognition

### OTHER

**PRESIDENT** | Finance and  
Economics Society, NSIT  
2014-15

## SKILLS

Programming Languages:

C • C++ • C# • Java • Python • PHP

Web:

HTML • CSS • JS • jQuery

OS:

Linux • macOS • Windows

Other:

MySQL • Git

## EXPERIENCE

### IIIT DELHI | RESEARCH ASSOCIATE (August'18 - Present)

- Solving research problems related to fraudulent behavior on social media platforms using NLP, Complex Networks and ML - at LCS2 (<http://lcs2.iiitd.edu.in/>).

### MICROSOFT INDIA (R&D) | SOFTWARE ENGINEER (June'16 - July'18)

- Worked in the Excel on Android and Skype for Business Server teams.
- Developed innovative ways of sharing Excel content and integration of Excel with a messaging app. Filed a **patent with the USPTO** for the same.
- Implemented Scroll on Rails feature on Android, and updated the Excel formula parsing logic to add support for additional operators on all platforms.
- Worked on time-driven release of Kaizala UWP. Developed the Chat Page and workflows like heterogeneous message views and custom cards.
- Worked on Cloud Call Analytics feature for Skype for Business Server 2019 release, building a secure pipeline to upload call telemetry data to the cloud.
- Winner of the OneWeek 2017 Hackathon in Rajesh Jha's executive challenge - developed a utility to scan and analyze receipts in Excel.

### NSIT WEB DEVELOPMENT TEAM (April'15 - April'16)

- Co-Developed the official website of NSIT ([nsit.ac.in](http://nsit.ac.in)) using Python-Flask.
- Managed a team of 8 students.

### ASPIRING APPS | SOFTWARE INTERN (March'14 - July'14)

- Worked on key enhancements for SocialCalc spreadsheets, feature additions like Dropbox integration and an in-app purchase framework for Android/iOS.
- Developed a platform for distribution of Web-Apps using Python-Tornado.

## PROJECTS UNDERTAKEN

### AUTOMATED CRICKET UMPIRE [peerj.com/preprints/3402v1](https://peerj.com/preprints/3402v1)

A computer vision project to make cricket umpiring decisions like Wide Ball, No Ball and LBW from a single camera feed using the OpenCV library.

### GUIDANCE SYSTEM FOR VISUALLY IMPAIRED [goo.gl/adZ4Hf](https://goo.gl/adZ4Hf)

A computer vision project to assist the visually impaired by using OpenCV and Raspberry Pi to detect zebra crossings and crosswalks.

### OS ALGORITHM VISUALIZATION APP [git.io/osava](https://git.io/osava)

A desktop/android app for visualizing various operating system algorithms (CPU Scheduling, Page Replacement, etc.) - developed using Kivy framework in Python.

### NUCLEAR CHAIN REACTION [goo.gl/FPLR3j](https://goo.gl/FPLR3j)

A variant of Chain Reaction game for Android with an option to play against AI CPU bots, and integration of Google Play Game Services - 4000+ downloads. Used modified Minimax algorithm along with probability based selection for bots.

### NSIT PERCENTAGE CALCULATOR [goo.gl/cH7W47](https://goo.gl/cH7W47)

A web-based tool to enable NSIT students to calculate and analyze their overall percentage - used by over 10000 students from NSIT.

## PUBLICATIONS

Yadav, S. , Chakraborty, P. , Mittal, P. and **Arora, U.** (2018), Children aged 6-24 months like to watch YouTube videos but could not learn anything from them. Acta Paediatr. . **doi:10.1111/apa.14291**