# Aneek Roy

#### PERSONAL DATA

Chittaranjan, West Bengal, India | 14<sup>th</sup> October 1995 PLACE AND DATE OF BIRTH:

> 7/11, Chhayanat, Calcutta Greens, 1050/2, Survey Park, Kolkata - 700075 ADDRESS:

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WORK EXPERIENCE

## AUGUST 2016 -AUGUST 2017

Undergraduate Research Assistant

Jadavpur University, Department of Computer Science and Engineering

Music Emotion Recognition Tasks on MIREX, Sound Tracks and Media-Eval datasets using regression and classification model

Guide: Dr. Sanjoy Kumar Saha, Professor, CSE Dept., Jadavpur University. Worked in Centre for Distributed Computing (CDC) Lab for improving classification accuracy. Achieved an improvement of 6-10% in accuracy over the state-of-the-art methods.

#### MAY-JULY 2017

Student Trainee Engineering

Samsung Research and Development Institute, Bangalore

Mentor: Joysula Venkat Narasimham, Chief Engineer at SRIB, India My project was design and development of mechanism to enhance the Tizen Web Ecosystem for Samsung mobile devices. Enhancement was done by importing Google Web Store store apps to the Tizen ecosystem. It involved json and manifest parsing along-with settings, privilege and certificate management for both the systems for fully functional compliance from user per-

spective. Achieved an accuracy of about 90%.

JUNE-JULY 2016

Undergraduate Summer Research Intern

ElectronicsandCommunicationSciencesUnit,IndianStatisticalInstitute,Kolkata

Mouse pointer manipulation system guided by hand gestures Project Title:

Supervisor: Dr. Bhabatosh Chanda, ECSU, ISI, Kolkata

Mentor: Sanchayan Santra, Senior Research Fellow, ECSU, ISI, Kolkata

This project was done as a part of Summer School on Computer Vision, Graphics and Image Processing, organized by the ECSU dept. of ISI, Kolkata. The project involved real time detection of hand gestures and tracking the fingers

to manipulate the mouse pointers. | Presentation | Video | Project Report

**SUMMER 2015** 

Undergraduate Summer Research Intern

R.C. Bose Centre for Cryptology, Indian Statistical Institute, Kolkata

Project Title:

Distributed Approach for Batch wise GCD Computation of RSA Moduli Guide:Dr. Souray Sengupta, Lecturer cum Post Doctoral Fellow,CSRU,ISI,Kolkata.

As a part of summer internship, I had to work in The Centre of Excellence in Cryptology (CoEC) Lab, on determining the Biases in Randomness of Public Keys generated using RSA encryption scheme.Collected 42 million HTTPs public certificates from internet. Used common factor attack to segregate the vulnerable moduli from entire collected dataset. Almost 0.4% sites are vulnerable due to shared primes in RSA. Developed a fully parallel processing method for batch wise GCD Computation.

#### **PUBLICATIONS**

Vineet Kumar, Aneek Roy, Sourya Sengupta and Sourav Sen Gupta "Parallelized Common Factor Attack on RSA" Paper accepted at 13th International Conference on Information System Security, IIT Bombay ,2017

Rajib Sarkar, Saikat Dutta, **Aneek Roy** and Sanjay Kumar Saha "Emotion Based Categorization of Music Using Low Level Features and Agglomerative Clustering" Paper Accepted at National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics, IIT Mandi. 2017.

#### **EDUCATION**

2014-Current Bachelor of Engineering in Computer Science and Engineering

Jadavpur University, Kolkata, India

GPA:8.0/10.0 Detailed List of Exams and Grade Cards

2014 Higher Secondary Examination (Class XII) AISSCE

Central Board of Secondary Education

Bhavan's Gangabux Kanoria Vidyamandir, Kolkata

PERCENTAGE: 95.6/100 Mark Sheet

2012 Secondary Examination (Class X)ICSE

**Council for the Indian School Certificate Examinations** 

Garden High School, Kolkata

PERCENTAGE: 97.4/100 Mark Sheet

#### **ACHIEVEMENTS**

JANUARY 2015 Designed a gesture Controlled droid using accelerometer and arduino.

Won the 1<sup>st</sup> prize in college-level robotics competition.

JUNE 2014 Received Letter of Appreciation from

HRD minister of India for being top 0.1% in CBSE.

2014 Top 1% of JEE-MAINS, JEE-ADVANCED, WBJEE competitive exams.

WBJEE General Merit Rank - 270

### COMPUTER SKILLS

Basic Knowledge: mysqL, LINUX , LTFX, Nmap Scanning Software

Intermediate Knowledge: OpenCV, Matlab

High Level languages known: C, C++, Java(Basic), Python(Basic)

#### INTERESTS AND ACTIVITIES

Open-Source Software Development, Competitive Programming Computer Vision, Image Processing, Pattern recognition, Gesture Recognition

## Undergraduate Course work

Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Compilers, Database Management Systems, Computer Networks