Aneek Roy

Personal Data

PLACE AND DATE OF BIRTH:	Chittaranjan,West Bengal,India	14th October 1995
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PROFILE LINKS:	LinkedIn , Github, Website

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 perspective. Achieved an accuracy of about 90%.

JUNE-JULY 2016

Undergraduate Summer Research Intern
Electronics and Communication Sciences Unit,Indian Statistical Institute,Kolkata

Project Title:
Mouse pointer manipulation system guided by hand gestures
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. Sourav 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 1st 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 , LATEX,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