

ANEЕК ROY

Software Engineer

📍 Bangalore,KA,India
🌐 aneekroy.github.io

@ aneek.roy5@gmail.com
📧 aneekroy

☎ +91 8335837835
📱 aneek-roy-jucse



EXPERIENCE

Software Engineer

GE Healthcare

📅 July 2018 – Ongoing 📍 Bengaluru,KA,India

- Currently working as a Front-end Developer in AngularJS 1.8 and Javascript.
- In the past worked as a full stack developer in (Node + Polymer.js/React.js) for front-end and Spring-boot Framework for Java for back-end.
- Worked in migration of Billing and Financial Engine from GE hosted Predix cloud infrastructure to AWS Cloud infrastructure.
- Worked in updation of code base for an existing application from polymer.js to react.js

Software Engineering Intern

Samsung Research and Development Institute

📅 May 2017 – July 2017 📍 Bengaluru,KA,India

- Objective was to enhance the Tizen Web Ecosystem for Samsung mobile devices by importing Google Web Store store apps to the Tizen platform.
- It involved json and manifest parsing along-with settings, privilege and certificate management for both the systems for fully functional integration from user perspective.
- Achieved an accuracy of about 90% for a test set of around 1lac apps.

Undergraduate Research Assistant

Jadavpur University,Department of Computer Science and Engineering

📅 August 2016 – August 2017 📍 Kolkata,India

- Guide : Dr. Sanjoy Kumar Saha, Professor, CSE Dept., Jadavpur University.
- Music Emotion Recognition Tasks on MIREX,Sound Tracks and Media-Eval datasets using regression and classification model
- Achieved an improvement of 6-10% in accuracy over the state-of-the-art methods.

Undergraduate Summer Research Assistant

ECSU,Indian Statistical Institute,Kolkata

📅 June 2016 - July 2016 📍 Kolkata,India

- Mouse pointer manipulation system guided by hand gestures
- Supervisor : Dr. Bhabatosh Chanda,ECSU,ISI,Kolkata Mentor : Sanchayan Santra,Senior Research Fellow,ECSU,ISI,Kolkata
- The project involved real time detection of hand gestures and tracking the fingers to manipulate the mouse pointers. | Presentation | Video | Project Report.

TECH SKILL SET

Javascript HTML CSS C++
Python ReactJS AngularJS Node.js
Java Spring-boot

EDUCATION

MS in Computer Engineering

New York University

📅 Aug 2022 – May 2024

Incoming Fall 2022 Student

B.E. in Computer Science and Engineering(Hons.)

Jadavpur University

📅 Aug 2014 – May 2018

GPA:8/10 | Detailed List of Exams and Grade Cards

Higher Secondary Examination (Class XII) AISSCE

Central Board of Secondary Education

📅 2012 – 2014 📍 BGKV,Kolkata

Percentage: 95.6/100 | Mark Sheet

Secondary Examination (Class X)ICSE

Council for the Indian School Certificate Examinations

📅 2012 📍 Garden High School

Percentage: 97.4/100 | Mark Sheet

ACHIEVEMENTS

📄 Designed a gesture Controlled droid using accelerometer and arduino. Won the 1st prize in college-level robotics competition in January 2015.

💖 Higher Secondary Exam June 2014 Received Letter of Appreciation from HRD minister of India for being top 0.1% in CBSE.

📈 WBJEE General Merit Rank - 270 Top 1% of JEE-MAINS,JEE-ADVANCED,WBJEE

UG RESEARCH EXPERIENCE

UG Summer Research Intern

R.C. Bose Centre for Cryptology, ISI, Kolkata

📅 May 2015 - July 2015

📍 Kolkata, India

- Distributed Approach for Batch wise GCD Computation of RSA Moduli
- Guide: Dr. Sourav Sengupta, Lecturer and Assistant Chair, CSE, NTU Singapore
- As a part of summer internship, I had to work in (CoEC) Lab, on determining the Biases in Randomness of Public Keys generated using RSA encryption scheme.
- Collected 42 million HTTPs public certificates from internet.
- Almost 0.4% sites are vulnerable due to shared primes in RSA. Developed a fully parallel processing method for batch wise GCD Computation.

UNDERGRADUATE COURSE WORK

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

PUBLICATIONS

📄 Journal Articles

- Sarkar, R., Choudhury, S., Dutta, S., Roy, A., & Saha, S. K. (2020). Recognition of emotion in music based on deep convolutional neural network. *Multimedia Tools and Applications*, 79(1), 765–783.

👥 Conference Proceedings

- Roy, A., Biswas, N., Saha, S. K., & Chanda, B. (2019). Classification of moving crowd based on motion pattern. In *2019 IEEE Region 10 Symposium (Tensymp)* (pp. 102–107). IEEE.
- Kumar, V., Roy, A., Sengupta, S., & Gupta, S. S. (2017). Parallelized common factor attack on rsa. In *International conference on information systems security* (pp. 303–312). Springer.
- Sarkar, R., Dutta, S., Roy, A., & Saha, S. K. (2017). Emotion based categorization of music using low level features and agglomerative clustering. In *National conference on computer vision, pattern recognition, image processing, and graphics* (pp. 506–516). Springer.

INTERESTS

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

REFEREES

Prof. Sanjoy Kumar Saha

@ Jadavpur University

✉ sks_ju@yahoo.co.in

Prayukti Bhavan, Dept of CSE,
Jadavpur University

Prof. Sourav Sengupta

@ NTU Singapore

✉ sg.sourav@ntu.edu.sg

School of Computer Science and Engineering,
Nanyang Technological University
50 Nanyang Avenue, Singapore 639798
Office : N4-02b-45 Phone : +65 6790 4587