

VIRAJ PARIMI

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EDUCATION

B.Tech in Computer Science and Engineering

Indraprastha Institute of Information Technology, Delhi

CGPA: 9.10/10.00

July 2015 - Present

HSC, Class XII

St. Columba's School, Delhi, 94.4%

Apr 2013 - May 2014

SSC, Class X

St. Columba's School, Delhi, CGPA: 10/10

Apr 2011 - May 2012

SKILLS AND INTERESTS

Programming Languages Python, C, C++, Java

Tools and Technologies HCLIB, HPX, Qt, OpenMP, OpenCL, CUDA, Rust, OpenAcc, MPI, UPC++, Tensorflow, Pytorch, Keras, Git, Django, Javascript, RubyOnRails, Processing, PHP, OpenCV, Docker, MongoDB, MySQL, Raspberry Pi, Tor

PROJECTS

Smart Glasses

Dr. Alexander Fell

January 2015 - April 2015

Team Size: 4

- A prototype to help blind people understand text in books and also allow them to identify people they already know. Selected as top 10 projects of that year and was showcased at the Delhi Mini-Maker Faire.

Project O

Dr. Ponnurangam Kumaraguru

August 2016 - November 2016

Team Size: 7

- Worked on a project of CERC Lab - IIIT-D. It is a tool that analyses social media content and provides feedback to state and federal government agencies in India. It is installed in 75+ government agencies.

Private TOR Network

Dr. Vinayak Naik

January 2017 - April 2017

Team Size: 2

- Created a private Tor network and were able to demonstrate seamless talk between relays and DA. Was implemented for a course called Network Administration.

NBDC Data Analyser

Dr. Ponnurangam Kumaraguru

May 2017 - September 2017

- Working on a project of National Bomb Data Center which comes under NSG(National Security Guards) to help them analyse bomb data. It is currently installed at their headquarters.

Opine

Ms. Sheetu Ahuja

July 2016 - Present

- Working on maintaining and updating a college survey system where course feedbacks for mid-semester and end-semester are taken.

Github Recommender System

Dr. Angshul Majumdar

August 2017 - November 2017

Team Size: 2

- Developed a recommender system similar to Amazon/Flipkart for Github where users are provided with good repositories for working on.

Reinforcement Learning

Dr. Saket Anand

August 2017 - November 2017

Team Size: 4

- Implemented reinforcement learning algorithms and understanding how they work. Also worked on finding ways to improve how the algorithm works and improves with time.

COTTON

February 2018 - April 2018

Dr. Vivek Kumar

Team Size: 2

- Implemented a light-weight work-stealing runtime for async-finish parallelism which was energy efficient without significant impact on the performance.

Paging and Swapping in xv6

March 2018 - April 2018

Dr. Piyus Kedia

Team Size: 2

- Implemented partial paging and swapping functionality in the xv6 kernel using xv6 book and Intel developer's manual as references.

Parallel Depth First Search

March 2018 - April 2018

Dr. Ojaswa Sharma

Team Size: 2

- Implemented a parallel version of the popular Depth First Search algorithm which is by nature non-serializable, written entirely in CUDA and showed performance improvement over the serial version.

Low Resolution Face Recognition

April 2018 - May 2018

Dr. Saket Anand, Dr. Chetan Arora

Team Size: 3

- Used SRGAN in combination with Facenet architecture to recognize faces in the widely used LFW Dataset. SRGAN was used for super-resolution whereas the standard triplet loss function of Facenet allowed for efficient face recognition.

B.TECH PROJECT

Understanding Vulnerability of Communities in Complex Networks

July 2017 - May 2018

Dr. Tanmoy Chakraborty, Dr. Ponnurangam Kumaraguru

- Worked on a NP-Hard problem trying to identify vulnerable nodes in a complex network. Involves community detection and heuristic based approach in order to meet the optimal result.

POSITION OF RESPONSIBILITY

Undergraduate Researcher

August 2016 - Present

Precog - IIITD Research Group

- Working on problems relating to Social Media Analysis.

Undergraduate Researcher

August 2017 - Present

Laboratory for Computational Social Systems - IIITD Research Group

- Working on problems relating to Complex Networks and Community Structures.

Teaching Assistant

July 2017 - November 2017

IIITD

- Worked as a TA for System Management course.

Event Head

July 2016 - August 2016

Esya '17 - IIITD

- Organized BrainFuzz - An algorithm design contest for Esya 2017.

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.