VIRAJ PARIMI

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EDUCATION

B.Tech in Computer Science and Engineering   July 2015 - Present
Indraprastha Institute of Information Technology, Delhi
CGPA: 8.98/10.00

HSC, Class XII   Apr 2013 - May 2014
St. Columba's School, Delhi, 94.4%

SSC, Class X   Apr 2011 - May 2012
St. Columba's School, Delhi, CGPA: 10/10

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   January 2015 - April 2015
Dr. Alexander Fell   *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   August 2016 - November 2016
Dr. Ponnurangam Kumaraguru   *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   January 2017 - April 2017
Dr. Vinayak Naik   *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   May 2017 - September 2017
Dr. Ponnurangam Kumaraguru
· 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   July 2016 - Present
Ms. Sheetu Ahuja
· Working on maintaining and updating a college survey system where course feedbacks for mid-semester and end-semester are taken.

Github Recommender System   August 2017 - November 2017
Dr. Angshul Majumdar   *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   August 2017 - November 2017
Dr. Saket Anand   *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.