Anirban Ghose

Website: https://anighose25.github.io/
Email: anighose25@gmail.com
Phone: +91 9674323114
Address: 36C Lake Road, Kolkata 700029, West Bengal, India

Research Interests:

Compilers, Runtime Systems, Deep Learning, Reinforcement Learning

Education:

Masters by Research, Computer Science and Engineering *(2013-2016)*	**9.27/10**
Indian Institute of Technology, Kharagpur	
Advisor(s): Dr. Soumyajit Dey and Dr. Pabitra Mitra	
	8.63/10
B.Tech in Computer Science and Engineering *(2009-2013)*	
Heritage Institute of Technology, Kolkata, Affiliation: WBUT	
	89.57 %
Higher Secondary Examination *(2007-2009)*	
South Point High School, Kolkata, Affiliation:WBCHSE	
	92.15 %
Secondary Examination *(2006-2007)*	
South Point High School, Kolkata, Affiliation: WBBSE	

Publications:

– **Divergence Aware Automated Partitioning of OpenCL Workloads**, ISEC 2016.
  <u>Anirban Ghose</u>, Soumyajit Dey, Pabitra Mitra, Mainak Chaudhuri

– **A Framework for OpenCL Task Scheduling on Heterogeneous Multicores**, Parallel Processing Letters 2017
  <u>Anirban Ghose</u>, Lokesh Dokara, Soumyajit Dey, Pabitra Mitra

– **Thermal Load-aware Adaptive Scheduling for Heterogeneous Platforms**, To Appear in VLSID 2020
  Srijeeta Maity, <u>Anirban Ghose</u>, Soumyajit Dey, Swarnendu Biswas

Awards:

– **Qualcomm Innovation Fellowship 2018**,
  Project Proposal: Intelligent ADAS Task Management on Heterogeneous Automotive Architectures
  Team: <u>Anirban Ghose</u>, Srijeeta Maity, Soumyajit Dey, Pabitra Mitra

Experience:

Jul'16 - Present	**PhD Research Scholar** in the Dept. of Computer Science and Engineering at IIT Kharagpur, under the guidance of Dr. Soumyajit Dey, working on designing intelligent runtime systems and novel scheduling schemes for data parallel workloads.
Dec'13 - Jul '16	**Masters Student** in the Dept of Computer Science and Engineering at IIT Kharagpur, under the guidance of Dr. Soumyajit Dey and Dr. Pabitra Mitra, working on developing intelligent task partitioning frameworks for OpenCL workloads.
May'14 - Jul'16	**Junior Project Assistant** for Research Project - "Static Analysis based Partitioning Techniques for GPGPU Programs" sponsored by ISIRD SRIC
Sep'13 - Jul'16	**Research Consultant** for Consultancy Project "Architectural and Algorithmic Optimizations for Speech based Communication Interfaces on Mobile Devices sponsored by Intel.
Jun'12 - Jul'12	**Summer Intern** at CSTAR, IIIT Hyderabad under the guidance of Dr. Kannan Srinathan, developing JavaScript modules for elliptic curve cryptography algorithms.

Coursework:

• Machine Learning • High Performance Computer Architecture • Parallel and Distributed Algorithms

Skills:

Programming Languages	**Proficient**: • C • Python • C++ • CUDA • OpenCL
	Acquainted: • Java • Javascript • Matlab
Libraries & Tools	• PyTorch • Keras • WEKA • PocketSphinx • Kaldi • LLVM • Clang