

Subhadeep Bhattacharya

CONTACT INFORMATION	1610 Myrick Rd Tallahassee FL 32303	Cell: (+1) 850-405-8352 Skype: subhadeepit94_1 E-mail: sb17v@my.fsu.edu LinkedIn: www.linkedin.com/in/subhadeep-bhattacharya-fsu Website: http://ww2.cs.fsu.edu/~bhattach/
RESEARCH INTERESTS	<ul style="list-style-type: none">• High Performance Computing: Parallel Programming Models, Communication Runtime• Deep Learning: Distributed Deep Learning Frameworks• Bioinformatics: Microarray Data Analysis	
EDUCATION	Florida State University , Tallahassee, Florida PhD, Computer Science , <i>CGPA 3.972/4.00</i> August, 2017 - Till Date St. Thomas' College of Engineering and Technology , Kolkata, India B.Tech., Information Technology, <i>DGPA 8.54/10.00</i> August, 2011 - August, 2015	
EXPERIANCE	Department of Computer Science, Florida State University , Tallahassee, Florida <ul style="list-style-type: none">• Graduate Teaching Assistant Working as a Teaching Assistant for - Computer Fluency (CGS 2060/2100) Jan, 2020 - Till Date Computer Organization II (CDA 3101) August, 2019 - Dec, 2019 Computer Architecture (CDA 5155) August, 2019 - Dec, 2019 Introduction to Operating Systems (COP 4610) August, 2017 - December 2017• Graduate Research Assistant August, 2017 - May, 2019 Working in Computer Architecture and SysTems Research Lab (CASTL) under the supervision of <i>Professor Dr. Weikuan Yu</i> MCS Division, Argonne National Laboratory , Lemont, Illinois <ul style="list-style-type: none">• Summer Research Aide May, 2019 - Aug, 2019 Explored GPU Aware Reduction Offloading Inside MPI Library on Heterogeneous Clusters under the supervision of <i>Dr. Min Si and Dr. Giuseppe Congiu</i>. Achieved around 1.9x performance improvement for small and medium message sizes without using GPUDirect features. Infosys , Bengaluru, India <ul style="list-style-type: none">• Systems Engineer Sept, 2015 - August, 2017 Worked as a Java and NodeJS application developer for developing Application and Microservices layer for different web applications specifically MyAccount and NBN+ for the Australian telecommunications company Telstra	
RESEARCH PROJECTS	<ul style="list-style-type: none">• Optimization Techniques for Distributed Deep Learning Framework: Currently working on reducing the communication bottleneck for the training of deep models using distributed Deep-Learning framework.• OpenSHMEM-X Libfabric Conduit Implementation: Worked on a project with Oak Ridge National Laboratory for implementing a communication conduit for OpenSHMEM-X using OFI Libfabric and also tried to improve its portability and performance.• SHMEMCache on Hybrid Memory Architecture: Worked on a project with Oak Ridge National Laboratory to enable Hybrid Memory Scheme for SHMEMCache.• Spark: Study of different shuffling mechanisms present in Spark and implementation of a custom logger for collecting different parameters related to shuffling phase to understand their characteristics.	
SELECTED PUBLICATION	Subhadeep Bhattacharya , Shaeke Salman, Manjunath Gorentla Venkata, Harsh Kundnani, Neena Imam, Weikuan Yu. <i>An Initial Implementation of Libfabric Conduit for OpenSHMEM-X</i> . OpenSHMEM 2018: Fifth Workshop on OpenSHMEM and Related Technologies (Baltimore, Maryland). August 2018.	
TECHNICAL SKILLS	<ul style="list-style-type: none">- Programming Languages: C/C++, Python, Java, Matlab, Javascript, JQuery, NodeJS, TypeScript- Frameworks: OpenSHMEM, UCX, OFI Libfabric, PyTorch, Horovod	
ACADEMIC PROJECTS	<ul style="list-style-type: none">• Analysis of Microarray data to find out Important and Informative Genes: A system implemented using Matlab to study the gene expression from Microarray data set, estimate the missing gene expressions and determine an ensemble of classifiers to correctly identify the diseased samples from the non-diseased one	