

Fahim Tahmid Chowdhury

CONTACT INFORMATION	1819 W Pensacola St Apt#C-2 Tallahassee FL 32304	Cell: (+1) 786-406-2617 Skype: fahim.tahmid.chowdhury E-mail: ftc17@my.fsu.edu LinkedIn: www.linkedin.com/in/fahimtahmidchowdhury Website: https://fahimcsebuett.github.io/website/
OBJECTIVE	To satisfy my thirst for innovation and add values to the society while building up my career in research assisted by my engineering acumen	
CURRENT EMPLOYER	Department of Computer Science, Florida State University , Tallahassee, Florida Graduate Research Assistant August, 2017 - Till Date Working in Computer Architecture and Systems Research Lab (CASTL) under the supervision of Professor Dr. Weikuan Yu	
RESEARCH INTERESTS	<ul style="list-style-type: none">• Computer Architecture: File Systems and Storage, I/O Acceleration, Operating Systems• Artificial Intelligence: Machine Learning, Convolutional Neural Networks and Deep Learning• Theoretical Computer Science: Graph Theory, Drawing and Visualization	
EDUCATION	Florida State University , Tallahassee, Florida PhD, Computer Science , Currently studying, CGPA 4.00/4.00 Bangladesh University of Engineering and Technology , Dhaka, Bangladesh Bachelor of Science, Computer Science and Engineering , February 2013, CGPA 3.54/4.00 Notre Dame College , Dhaka, Bangladesh Higher Secondary Certificate(HSC), Science, 2007, GPA 5.00/5.00 Ispahani Public School and College , Chittagong, Bangladesh Secondary School Certificate(SSC), Science, 2005, GPA 5.00/5.00	
RESEARCH EXPERIENCE	National Energy Research Scientific Computing Center (NERSC) , Lawrence Berkeley National Laboratory (LBNL), Berkeley, California Student Assistant May, 2018 - August, 2018 Worked as a summer intern in the Data Analytics and Services group at NERSC on a project for analyzing scalable data pipeline for distributed deep learning NERSC, LBNL , Berkeley, California LBNL Affiliate August, 2018 - Till Date Continuing the summer internship project on distributed deep learning applications' data pipeline	
RESEARCH PROJECTS	<ul style="list-style-type: none">• Scalable Data Pipeline for Distributed Deep Learning: Working on a project with NERSC for profiling I/O in the distributed deep learning applications to explore the I/O bottlenecks, and design and implement an optimization strategy to overcome the possible bottlenecks• BeeGFS Performance Evaluation: Serving a collaboration project with LLNL for evaluating the performance of BeeGFS parallel cluster file system using different benchmark tools (e.g. DD, IOZone and IOR)• Burst Buffer File System: Working on a collaboration project with Lawrence Livermore National Laboratory (LLNL) for improving the performance of a burst-buffer file system (i.e. UnifyCR) by enhancing the garbage collection process• Study on LBANN: Studying on Livermore Big Artificial Neural Network (LBANN)• Specialized File System for Large Datasets of Deep Neural Network: Assisting a collaboration project with LLNL for designing a file system for large datasets of Deep Neural Network by studying the data shuffling mechanism in TensorFlow and Caffe	
ACADEMIC PROJECTS	<ul style="list-style-type: none">• CSE Office Management: An integrated system for automating all the official tasks(<i>i.e. Inventory management, Notice board, Teachers' profile, Peer-to-peer communication etc.</i>) of BUET CSE• Network Text Editor: A C++ application to facilitating collaborative editing in a LAN	

	<ul style="list-style-type: none"> • Automated Water Faucet: A portable hardware device that can be put on any water tape to control the flow of water automatically by detecting human presence using PIR sensor for avoiding wastage • Digital Watch with Timer: A digital watch with timer developed using ATMEGA 8 Microcontroller • LAN Messenger: A software developed in Java for chatting with the contacts that are in a LAN • NACHOS: Not Another Completely Heuristic Operating System implementation developed in C++ • Snooker Game: A two player Snooker game developed in C++ • Screensaver: A simple screensaver developed in Assembly Language
UNDERGRADUATE THESIS	Design of a Surveillance System for Dhaka City , <i>Graph Drawing and Information Visualization Lab</i> , CSE, BUET under the supervision of <i>Dr. Md. Saidur Rahman</i>
ACADEMIC ACHIEVEMENTS	<ul style="list-style-type: none"> • Champion in the Intra-Department Project Competition for the project <i>CSE Office Management</i> • Board Merit Scholarship, HSC Examination • Board Merit Scholarship, SSC Examination
INDUSTRY EXPERIENCE	<p>IPvision Canada Inc, Dhaka, Bangladesh Software Analyst October, 2016 - July, 2017 Worked as a member of the development team for developing the SDK of the social networking platform named <i>ringID</i></p> <p>Vizrt, Dhaka, Bangladesh Software Engineer July, 2014 - September, 2016 Served as a member of the <i>Sports Solutions</i> R&D team in Dhaka, mostly worked on <i>Viz Libero</i> software</p> <p>Enosis Solutions, Dhaka, Bangladesh Software Engineer February, 2013 - June, 2014 Worked as a member of the development team for <i>Visual-Host</i> which is an offshore SDK framework of a Computer Aided Engineering(CAE) software <i>Visual-Environment</i></p>
TECHNICAL SKILLS	<ul style="list-style-type: none"> - Programming Languages: C/C++, Python, C#, Matlab, Java, Javascript, Prolog - API Libraries: HDF5, BSD sockets, WinSock, Opengl, Boost, Windows API - Frameworks: TensorFlow, Caffe, Horovod, Qt Framework, MFC, .NET Framework, Google Test - Distributed File Systems: BurstFS, UnifyCR, BeeGFS, Lustre, Octopus - I/O Benchmark Tools: IOR, DD, IOZone, Bonnie++ - Profiling Tools: Darshan, TensorFlow Timeline - Database Management Systems: MySQL, Oracle, Web SQL, SQL Server - Design Tools: EDraw, GraphViz, Rational Rose - Documentation Tools: L^AT_EX, Doxygen - Project Management Applications: Jira, Redmine, Mantis, Microsoft Project - Version Control Systems: Git, Mercurial, SVN - Operating Systems: Unix/Linux, Windows
COMMUNITY WORK	<p>Engineering Students' Association of Bangladesh <i>A common platform for all the engineering students of Bangladesh</i> President October, 2011 - November, 2013 Pioneered the voluntary association along with a bunch of energetic people and served as the organizational head</p>
VOLUNTARY PROJECTS	<ul style="list-style-type: none"> • Gaming Application for Differently Abled Children: A car racing game interfaced with cycling machine for encouraging the <i>Active Range Of Motion Exercise (AROME)</i> for the children having weakness in <i>Quadriceps femoris muscle</i> being conducted in <i>Feroza Bari Disabled Children Hospital</i> • Software for ReCAP: A software for prioritizing the roads and highways by simulating an algorithm that is developed by <i>Department of Urban and Regional Planning</i>, BUET