

ARTHITA GHOSH

+1 (404) 889-1742 | aghosh80@gatech.edu | linkedin.com/in/arthita-ghosh-4b178598
251 10th St NW, Building F-215B, Atlanta, GA-30318

EDUCATION

Georgia Institute of Technology -Atlanta, Georgia

August 2019 – Present

Master of Science: Computer Science

Courses Taken: CS6035 Intro to Info Sec, CS 7641 Machine Learning, CS 7650 Natural Language, CS 6250 Computer Networks, CS6400 DB Sys Concepts and Design, CS7510 Graph Algorithms, CS 6220 Big Data Sys and Analytics **Current GPA- 4.0/4.0**

West Bengal University of University - Kolkata, West Bengal, India

August 2013 to July 2017

Bachelor of Technology: Computer Science and Engineering.

GPA - 8.98/10 (Rank 3/132)

WORK EXPERIENCE

Salesforce – Einstein Search UI – San Francisco, California

May – August 2020

- Working on rendering Einstein Assistant Dialog faster, by migrating Aura components of the Lightning UI framework to LWC to enable users enjoy an enhanced Search Experience.

Tata Consultancy Services – Engineering and Industrial Services Division - Kolkata, West Bengal, India October 2017 to June 2019

Assistant System Engineer

- Worked in the Product Lifecycle Development team for client Johnson and Johnson to provide application development services for Teamcenter and Agile applications using TCE.
- Worked with **Arduino Uno microcontroller and the Arduino IDE** to create the prototype of a robot used for smart irrigation.

SKILLS

Programming Languages: (Proficient) Java, Python; (Moderate) C, C++, HTML, JavaScript, XML, C#, PHP

Tools and Technologies: Eclipse, Android Studio, Wireshark, Teamcenter, Agile, Xilinx, gem5

Operating Systems: Windows, MacOS, Linux (Ubuntu, Fedora)

Databases: MongoDB, Oracle, Redis, MySQL, Cassandra

PROJECTS AND PUBLICATIONS

- Clustering of genomic sequences using a bi-directional LSTM** Georgia Institute of Technology, Aug'19-Dec'19
Interpreting the underlying language of genomic sequences for homo sapiens' chromosomes using deep learning models like forward and backward LSTMs and bi-directional LSTMs and utilizing trained model to cluster similar genomic sequences. Achieved an accuracy of 97% on chromosome 12 and 5 of homo sapiens.
- Performance Analysis of Multiple NoSQL Database systems using Yahoo Cloud Serving benchmark**
Deployed YCSB Client on an AWS instance and performed a performance comparison of NoSQL Databases– MongoDB, Redis, Cassandra using predefined and custom-made workloads to simulate requests generated by real-life applications and understand which application each database is optimized for. Georgia Institute of Technology, Aug'19-Dec'19
- Exploring Network-on-Chip Architectures using gem5.** West Bengal University of Technology, Aug'16-March'17
A comparative analysis of existing topologies like mesh and crossbar on System-on-Chips using system simulation software, gem5 using SPLASH2 benchmark programs like FFT. Presented and published at **International Conference of Informational Technology 2017**, India and available in IEEE Xplore (<https://ieeexplore.ieee.org/document/84238>)
- Implementation of a Custom Virtual Private Network on Cloud** Georgia Institute of Technology, Aug'19- Dec'19
Creating a custom VPN on cloud enabling access to location-blocked content and sites and also to understand how sites modify content according to location. I have been responsible for programming and deploying a proxy server to handle basic requests between a client and the main server.

ACCOMPLISHMENTS

- Graduated in top 2% of Computer Science Department** at West Bengal University of Technology, India.
- Student-Scientist School Nominee** for JBNSTS Science Camp (Department of Science and Technology, India)

- Awarded **ILP Kudos Award** by TATA Consultancy Services for project on financial feasibility analysis of SpaceX.
- Member of Association of Computing Machinery.
- **Captain of College Basketball Team and Women's Varsity Throwball team** (2013-17).