

Hao Xu

(cell) 469.859.7467 | (email) xuhq@bc.edu

PROFESSIONAL PROFILE-----

Among my undergraduate and graduate studies, I have expanded my knowledge and developed my skills in both computer science and data science.

- Proficiency in Python, Numpy, SQL, Java, C++ and C.
- 8 Courses taken with Georgia Institute of Technology: Advanced Operating Systems, Computer Networks, High Performance Computer Architecture, Software Development Process, Software Architecture and Design, Software Analysis and Testing, Deep Learning, Database System Concepts and Design.

EDUCATION-----

M. S. in Computer Science, GPA:4.0/4.0 expected graduation in 2022.09

Georgia Institute of Technology, Atlanta, GA, U.S.

Ph. D. in Computational Chemistry expected graduation in 2022.12

Boston College, Boston, MA, U.S.

M. S. in Computational Chemistry 2015.09-2017.05

Southern Methodist University, Dallas, TX, U.S.

B. S. in Chemistry and B. E. in Finance 2011.09-2015.07

China Agricultural University, Beijing, China

RESEARCH EXPERIENCE-----

- Software Analysis and Testing Projects on LLVM
 - Implementation of a Fuzzer for Automation Test
 - Implementation of Data Flow Analysis
 - Implementation of Datalog Analysis
 - Implementation of Cooperative Bug Isolation
- Operating System Project
 - Implementation of Virtual Machine Scheduling in KVM
 - Implementation of Barrier Synchronization with OpenMP and MPI
 - Implementation of a Distributed Service Server with gRPC
 - Implementation of a Simplified MapReduce Infrastructure
- Full Stack Project
 - Delivery of *Compare Job Offer Mobile App* with Java, Android studio and SQLite
 - Delivery of *Streaming Service Web* with Java, JavaScript and PostgreSQL
 - Delivery of *Dealership Web* with JavaScript, PHP and SQL
- Deep Learning Project
 - Implementation and Train of Neural Network on MINST with Numpy
 - Implementation and Train of CNN on CIFAR-10 with Pytorch
 - Implementation of Network Visualization and Style Transfer with Pytorch