Education

Master of Science in Computer Science,

2013-2015

Worcester Polytechnic Institute, US

Bachelor in Computer Science,

2008-2012 Tianjin University of Technology, China

Skill highlights

Programming Languages:

C++ Python

JAVA System and

frameworks: AWS Linux

Spark **Computation**

packages: CPLEX

CUDA **Database**:

NoSQL

MySQL etc.

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I have much experience in developing with various programming languages and multiple platforms. I also have experience in developing over the server side. Now seeking for a fulltime software engineer position.

Projects

Network protocol simulation and application

Computer networks course project

- Implemented a server and a client of a chat app, based on Linux sockets;
- Simulated the *selective repeat* and *go back n* algorithms of TCP protocal;
- This program is multithread, which can handle multiple clients at the same time.

Study on the Object Tracking in Video Stream

09/10 - 10/11

02/14 - 05/14

College student innovation project

- Studied Meanshift algorithm and Particle Filter algorithm;
- Implemented both of the above two algorithms in C++ and OpenCV;
- Blended the two algorithms.

Research experience

Semidefinite Programming, Binary Codes and a Graph Coloring Problem09/14 - 05/15 Master's thesis project Advised by Prof. Martin, William J

- Studied Semidefinite Programming (SDP), and CVX used to model and solve SDPs;
- Studied the binary code size bound formulation based on SDP;
- Wrote a C++ program used to generate the dual-SDP problems automatically.

Recovering All Statistically Significant OPSM Patterns

06/14 - 02/15

Advised by Prof. Trapp, Andrew

- Studied the Order-Preserved Submatrix (OPSM) problem;
- Used C++ and CPLEX Concert technology to formulate its complementary problem;
- Added constraints to recover all statistically significant OPSMs.

Study on the Combinatorics of Binary Serieal Parallel Graph

06/14 - 12/14

Advised by Prof. Hofri, Micha

- Used the Symbolic method in Analytic Combinatorics to model random structures;
- Used the *Transfer Theorem* in *Analytic Combinatorics* to obtain the analytical generating functions for the structure;
- Studied on the generating function for its properties, e.g., size and order.

Internship 04/13 - 05/13

Tellyes Company, Research Engineer, Tianjin, China

- · Learned the convolutional based ultrasound image simulation algorithm;
- Rewrote the algorithm from C++ into CUDA C giving a 10 times faster improvement.

Publications

Micha Hofri, Chao Li, Hosam Mahmoud

On the combinatorics of binary serires-parallel graphs

Submitted to Probability in the Engineering and Informational Science.