

Chao Li (<http://chaopli.github.io>)

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Targeting an Entry-Level Position as a...

Software Engineer

- Recent graduate of WPI's MS in CS program whose academic credentials are reinforced by delving into research projects resulting in **publications of papers and a book**, and by consistently learning new techniques and cutting edge knowledge such as **high performance computation** and machine learning.
- Consistently commended by professors for programming skills and concentration on work.
- Great team player in several team projects and interns.

Technology Highlights

Programming: C++ 11 (7 years), Python 2/3 (2 years), JAVA (3 years), MATLAB (1 year), shell script (1 year), LaTeX (1 year), Markdown (1 year);
HPC: CUDA, MPI, AWS, Spark;
Databases: MySQL, Oracle, MS SQL Server;
OS: *nix (main working OS), OS X, Windows;
Libraries/API: Linux sockets, OpenCV, NumPy, Qt; **Mathematical programming:** CPLEX, AMPL, CVX.

Internship

Tellyes Ltd. Co.

April, 2013 to May, 2013

High performance computation (CUDA) Intern

- Participated into one project during the one month-intern, working with a mentor.
- Accelerated a CPU based C++ image processing program with CUDA GPU computation framework.
- Extracted the data from original ITK data structures; processed the raw data in hierarchical GPU memory.

Projects

Computer Network Protocol Simulation

- Team leader of a 3 person's team.
- Simulated Go-Back-N and Selected repeat algorithm of TCP.
- Wrote an application running on the simulated protocol.
- Used the Linux sockets interface.

Database System and Application

- Team leader of a 3 person's team.

- Designed a database for storing information of personal collections.
- Wrote a manage system with Qt SDK

Distributed Computation Program

- Deployed an OpenMPI based distributed computation system on several virtual machines
- Implemented X algorithm on Dancing Links structure paralleled by MPI to take advantage of the nature of independence of the different phase of the algorithm.

Education

WORCESTER POLYTECHNIC INSTITUTE, Worcester, MA

Master of Science, Major in Computer Science, Aug, 2013 - Oct, 2015

- Graduated with publication of **2 Journal papers** and **a book**.
- Delved into 3 different projects simultaneously, working happily with all the 3 advisors.