XIAOZHENG(WILL) GUO

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TECHNICAL STRENGTHS

Programming	Java, C/C++, Python, SQL, Java Script, HTML, CSS
Systems & Tools	Linux, SSH, TCP/IP, MySQL
Courses Taken	Algorithms, Data Structures, Computer Commun Network, Basis of Computer Engineering, C Program Designing, Data Base, Web Programming, Digital Image Processing

EDUCATION

Tufts University *Medford MA*
M.S. in Electrical & Computer Engineering *Sept. 2016 - Now*

East China University of Science and Technology *Shanghai China*
B.S. in Physics GPA: 3.3 *Sept. 2011 - July. 2015*

PROJECTS

HTTP Proxy Server | Python, HTTP, TCP/IP, Socket, WireShark *Dec. 2016*
Designed a simple HTTP proxy server socket program by using Python. It can store web cache in dedicated file structure, and can handle multiple objects from different hosts.

Grep-like Index And Search Program | C++ *Dec. 2016*
Designed a program similar to the Unix built-in command "grep". User can input a word he/she wants to search in a directory and specify "case-sensitive" or "case-insensitive", then the program will traverse the file tree in the specific directory, index every file that it finds in the tree in Hash table, the program will output the directory/filename and the line number where the word occurs.

Online Retail Order Processing Simulation | C++ *Oct. 2016*
Designed an online retail order processing simulation program that simulated two main operations, retrieving orders and packaging orders. Users can input the number of package units and an order list which contain the arrival time, fetch time, and package time of each order. The program simulates the whole process of fetching items and packaging them for each order by using a master clock, so that it can deal with the order queue. It outputs the total processing time duration of each order.

Reverse Polish Notation (RPN) Calculator | C++ *Sept. 2016*
Implemented a RPN calculator similar to the Unix built-in "dc" calculator, using a stack to store floating point numbers. It can handle simple "+, -, *, /" operations. User can enter numbers or operators in command line or by passing a file. The program can display the outputs on screen or store them in file.

PATENT & PUBLICATION

Guo, Xiao-Zheng, et al. "All-optical logical gates based on photoinduced molecules reorientation in amorphous polymer films." Journal of Nonlinear Optical Physics & Materials 25.01 (2016): 1650004.