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LIU CHEN LU

HIGHLIGHTS

Have implemented sizable projects in C , C++, Python, Java, JSLayout, Bash script, and Maple
Experienced with Haskell, Scheme, MATLAB, XML
Enthusiastic public speaker; able to program in teams and individually

Tools experience: Visual Studio, Cygwin, Vim, Command Line
Interests: machine learning, artificial intelligence, optimization, mathematics

EDUCATION

BACHELOR OF COMPUTER SCIENCE, **UNIVERSITY OF WATERLOO** ***SEPT 2011-AUG 2016***
3.90 GPA equivalent; Dean's Honour List

BACHELOR OF BUSINESS ADMINISTRATION (CO-OP), WILFRID LAURIER UNIVERSITY
3.84 GPA equivalent; Dean's Honour List ***SEPT 2011-AUG 2016***

TECHNICAL EXPERIENCE

SOFTWARE INTERN AT **GOOGLE INC** JAN 2014 – APR 2014

- Worked on production critical, cross team search features for Google Memory
- Implemented a protocol buffer sharing service for information sharing between Java and C++ code components
  - Teammates intend to refactor Memory codebase to use my service
- Used Dagger dependency injection, JUnit, Stubby RPC, protocol buffers, JSLayout
- Experience working with multi-site teams

MATH DEVELOPER AT **MAPLESOFT** JAN 2013 – APR 2013

- Designed and implemented the Maple Student Statistics package
  - E.g. implemented an interface that enables students to explore the effect of varying each input parameter on statistical properties in arbitrary distributions
- Applied best practices with g4 version control, code reviews, unit testing, and standard documentation; worked in a large, complex development environment

UNDERGRADUATE RESEARCH ASSISTANT AT **CENTRE FOR PATTERN ANALYSIS AND MACHINE INTELLIGENCE** SEPT 2012 – JAN 2013

- Independently reviewed academic papers on various protein SVM string kernels for comparison against supervisor's categorization method
- Sought out and debugged code (in *C++*, *Python*, *MATLAB*) from other research projects to verify the runtime and accuracies stated in their research papers
- Modified Shogun's DNA string kernels to build a Python interface for protein analysis

PERSONAL PROJECTS

- Functional evolutionary Boids simulating emergent behaviour, *Haskell*
- Context free parsing applied to the English language via the CYK algorithm, *Python*
- WLPP (subset of C++) to MIPS compiler, *C++*
- Automated testing suite, *Bash script*

Github: https://github.com/LiuChenLu
Website: http://www.lclu.ca

AWARDS

- The Google Anita Borg Memorial Scholarship, 2013
- Winning team in 24Hours of Good Hackathon at Google Scholars Retreat, 2013
- Google Challenge Award, 2011
- Semi-finalist team in New Venture Business Competition, 2011