

Siyi(Fiona) Sun

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University of Waterloo | 4A Computer Science & Statistics

EDUCATION

UNIVERSITY OF WATERLOO

COMPUTER SCIENCE & STATISTICS

Candidate for Bachelor of Mathematics

Expected Jun 2019

Waterloo, ON, Canada

SKILLS

C++ • C • C# • Java • JavaScript

HTML • CSS • Scheme

Shell • \LaTeX • R • Linux/Unix

AngularJS • jQuery • Bootstrap

OpenDaylight • MongoDB • SQL Server

PROJECTS

• PERSONAL WEBSITE

<http://fionasun.me/>

• OS-161 KERNEL

Reviewed and modified Harvard OS-161

Kernel: implemented synchronization,
file systems & virtual memory

• WLP4 COMPILER

Implemented a C-like Language to MIPS
Machine Code Compiler

• CHESS GAME

Designed and coded Chess game (in
C++), involving the game rule
implementation, game graphic display,
human & computer interaction

INTERESTS

- Machine Learning
- Data Mining
- Artificial Intelligence
- Computational Inference

WORK EXPERIENCE

BMO CAPITAL MARKETS | DEVELOPER ANALYST

Sept 2017 – Present | Toronto, ON, Canada

- Designed and implemented a trading system to automate repo auction trades in C#
- Enhanced internal initiative management web portal using ASP.NET

HUAWEI TECHNOLOGIES | JAVA ENGINEER

Jan 2017 – Apr 2017 | Suzhou, Jiangsu, China

- Developed a number of backend features of Virtual Private Cloud (in Java), including the connection of Private Line Gateway and Direct Link using OpenDayLight
- Implemented frontend designs using AngularJS & jQuery

WASTECO | IT/BUSINESS ANALYST

May 2016 – Aug 2016 | Toronto, ON, Canada

- Developed SQL queries and prepared customized business reports
- Combined data to create customer map in GTA and analyzed customer behavior to scale up sales

CI INVESTMENTS INC. | UNIX ARCHITECT CO-OP

Sep 2015 – Dec 2015 | Toronto, ON, Canada

- Provided Infrastructure support for administration of over 100 AIX & RHEL Servers, including networking, security, change control, user management, data backup, disaster recovery
- Automated routine procedures on AIX servers using korn shell scripts

OTHER EXPERIENCE

• TEACHING ASSISTANT FOR CALCULUS

2015 - 2016 | University of Waterloo

AWARDS

2014-2018 Faculty of Mathematics Scholarship

2014-2015 University of Waterloo President's Scholarship