

Tony Dong

4A Honours Computer Engineering
tonydong91@gmail.com

Skills Summary

General-Purpose: C#, Java, Scala, C++, C

Web: HTML5, CSS, JS, ASP.NET, PHP, XML, JSON

Statistical: Matlab, VB, Excel, R, SQL, Octave

Interested In: Machine Learning, Neural Networks, Algorithm Design, Data Mining, Image Processing

Database: MySQL, PostgreSQL, Titan, Cassandra

APIs: Twitter, Dropbox, Bloomberg, Last.fm

Source Control: SVN, Git, Synergy

Work Experience

Twitter

(San Francisco, CA)

Software Engineer, Trust and Safety Team

Sept - Dec '13

University of Waterloo

(Waterloo, ON)

Undergraduate Research Assistant (Kshirasagar Naik, Ph.D., P.Eng.)

May - Sept '13

- Implementing automated processes to determine resource usage of applications in Android

CI Investments Inc.

(Toronto, ON)

Programmer Analyst, Unitholder Systems

Sept - Dec '12

- Redesigned and re-implemented a system used for providing transaction settlement instructions, and settlement confirmations to FundSERV Inc.
- Optimized various SQL queries to significantly improve application performance

Picton Mahoney Asset Management

(Toronto, ON)

Software Developer

May - Sept '11 & Jan - Apr '12

- Designed and implemented WPF, and ASP.NET applications for financial analysis using C#
- Automated performance reports, with a robust application designed to facilitate future additions
- Worked on a Market On Close (MOC) price alert system to take advantage of bid-ask spreads
- Responsible for performance analysis, and optimization of existing applications

University of Waterloo

(Waterloo, ON)

Computing Assistant, Arts Computing Office

Sept - Dec '10

- Created and managed departmental websites using PHP, HTML, CSS, Javascript, and MySQL

Virtual Team Builders

(Toronto, ON)

Sales and Marketing Assistant

Jan - Apr '10

Projects

- Creating a "Music Graph Search Service" - Please Visit www.TryRhino.com
- Designing a facial recognition system for actor search on IMDb
- Designing an algorithmic swing trading strategy using Machine Learning concepts
- Developing a secure file sharing system that utilizes the Dropbox API
- Developed an algorithm to increase the number of Twitter followers - @TonyDong3

Education

Candidate for Bachelor of Applied Science, Honours Computer Engineering, Co-op Program, University of Waterloo, Waterloo, ON, Sept 2009 — present

Relevant Projects:

- Implemented a distributed file synchronization system using Java
- Created a cycle-accurate implementation of a MIPS processor using Verilog
- Designed an optimized WLAN simulator that implemented CSMA/CD as its MAC layer protocol
- Developed a Kirsch edge-detector circuit in VHDL
- Implemented operating system concepts on a Keil MCB1768 Arm-based board running RL-RTX RTOS