

# Tony Dong

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## Skills Summary

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**Languages:** C#, Java, Scala, C++, C, SQL, R, Matlab, Verilog, Assembly (M68K/ColdFire), Ruby, JS

**Datastores:** MySQL, PostgreSQL, Titan, Cassandra, memcached, Microsoft SQL Server

**Interested In:** Distributed Computing, Language Design, Data Mining, Machine Learning

## Work Experience

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### Twitter

(San Francisco, CA)

Software Engineer, Trust and Safety Engineering

Sept - Dec '13

- Worked on a service to report illegal media content to the authorities
- Built new tools and features for use by the Trust and Safety Team

### 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.

### 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

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- Creating a "Music Graph Search Service" - Please Visit [www.TryRhino.com](http://www.TryRhino.com)
- 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
- @TweetAGIF - Hackathon Project that lets you Tweet GIFs at people

## Education

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**Candidate for Bachelor of Applied Science, Honours Computer Engineering, Co-op**

Program, University of Waterloo, Waterloo, ON, Sept 2009 — Apr 2014

### 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
- Built a sound processing embedded C applications for a NIOS II processor on an Altera DE2 board