

# Kevin Jordan Wong

Data Mining, Machine Learning and Computer Security

## Work Experience



**A9.com,**  
(an Amazon subsidiary)  
Software Engineer Intern  
Palo Alto, CA  
Apr '14 – Aug '14

- Analyzed the performance of edge case queries within Amazon's machine learned ranking models to identify areas of potential optimizations
- Developed language and data processing modules to create new model training features that optimized the ranking performance of edge case queries by 4%
- *Technologies used: Python, Hadoop, Pig, Vim, Git, UNIX*



**Tangam Systems Inc.**  
Software Developer Intern  
Waterloo, ON  
Sep '13 – Dec '13

- Reduced the run time of a statistical database analysis application from 7 hours to 2 hours (72%) by implementing a data caching algorithm in C#
- Resolved 3 high-impact critical bugs in the front-end web interface of the company's flagship product, which was then promptly shipped to customers
- *Technologies used: C#, SQL, JavaScript, TortoiseSVN*



**BBM Canada**  
Software Developer Intern  
Toronto, ON  
Jan '13 – Apr '13

- Designed and implemented a fully functional MVC-structured internal website for analysts to access and manipulate data in distributed SQL databases
- *Technologies used: C#, SQL, JavaScript, HTML, CSS*

## Side Projects

**Research Assistant**  
University of Waterloo  
Prof. Vijay Ganesh, PhD  
Apr '14 – present

- Working with Prof. Ganesh to examine the possibility of creating an automated system to detect security bugs such as Heartbleed

**Trending Music Widget**  
A9 Intern Hackathon  
July '14

- Processed a live stream of Twitter data to filter out songs from tweets using natural language processing techniques
- Developed a ranking function using a custom algorithm based on Tweet counts and time decay
- Created a simple and clean widget in JavaScript to display the top trending songs on the Amazon Digital Music web store

**UW Student Hub**  
PennApps Hackathon  
Feb '14  
[\[GitHub Link\]](#)

- Developed algorithms to automatically mine personalized student data from uWaterloo's affiliate websites, using uWaterloo credentials
- Designed a website deploying these algorithms to aggregate all of a student's data in one convenient place

## Contact

kevin.jwong85@gmail.com  
(647) 802-5293  
[www.kevinjwong.com](http://www.kevinjwong.com)

## Software Skills

Java [4 years]  
Python [2 years]  
SQL [3 years]  
C# [3 years]  
C/C++ [1 year]

UNIX and Windows development experience

Experience with version control systems such as Git and TortoiseSVN

## Education

**University of Waterloo**  
GPA: 3.7  
Sept '11 – present

Candidate for:  
BASC, Computer Engineering,  
Management Science Option

Relevant Waterloo courses:  
95%: *Algorithms and Data Structures*  
95%: *Compilers*  
93%: *Programming Fundamentals*  
88%: *Digital Computers*  
80%: *Operating Systems*

**Massively Open Online Courses,**  
Via Udacity.com and Coursera.org  
-Machine Learning  
-Intro to Hadoop and MapReduce  
-Cryptography  
-Interactive Programming in Python  
[\[GitHub link to Python games\]](#)

## Activities/Interests

**Sigma Chi Fraternity**  
Vice President, Apr '13 – Apr '14  
Recruitment Chairman, Sep '12  
Waterloo, ON

**Dynamic Trinity Academy**  
Taekwondo Instructor  
Toronto, ON, Apr '12 – present