Kevin Jordan
Wong

Data Mining, Machine Learning and Computer Security

Work Experience

A9.com,
(an Amazon subsidiary)
Software Engineer Intern
Palo Alto, CA, USA
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
- *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*

Personal 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

Recyclr
Hack The North hackathon
Sep '14 | Waterloo, ON
[Github Link]

- Developed an Android application that scans a UPC barcode and informs the user if the packaging is recyclable
- Used an Amazon RDS database to store the necessary data on recyclable products for the app to query

Trending Music Widget
A9 Intern Hackathon
Jul '14 | Palo Alto, CA

- Processed a live stream of Twitter data to filter out, determine and display the world's top trending songs in a clean JavaScript widget
- Ranked the songs using a custom popularity and time decay algorithm

UW Student Hub
PennApps hackathon
Feb '14 | Philadelphia, PA
[GitHub Link]

- Developed algorithms to automatically mine personalized student data from uWaterloo's affiliate websites
- 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

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