Kevin Jordan
Wong

Data Mining, Machine Learning and Computer Security

Work Experience

A9.com
Software Engineer
Palo Alto, CA
Apr '14 – present

- Currently analyzing Amazon's machine learned ranking models to determine methods of improving product rankings for rare queries
- Rare queries (defined as having no previous customer actions on the query) make up over 28% of all Amazon product searches
- *Technologies used: Python, Hadoop, Vim, Git, UNIX*

Tangam Systems Inc.
Software Developer
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 critical bugs in the front-end web interface (in JavaScript) of the company's flagship product
- *Technologies used: C#, SQL, JavaScript, TortoiseSVN*

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

- Retrieved data through complex SQL queries from multiple databases for data visualization using SSRS reports
- Designed and implemented a fully functional internal website for analysts to access and alter data in a company database
- *Technologies used: C#, SQL, JavaScript, HTML, CSS*

Side Projects

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

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

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

ESPN Headline Ticker
Personal Project
Sep '13 – Nov '13
[GitHub Link]

- Developed a Python application running on a Raspberry Pi computer that retrieves ESPN.com headlines through their public API
- Push buttons cycle through headlines that are written to an LCD character display using the Raspberry Pi GPIO pins

Contact

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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
Major: *Computer Engineering*
Sept '11 – present

Candidate for*:*
Bachelor of Applied Science, Management Science Option

Relevant Waterloo courses:
95%: *Algorithms and Data Structure*
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
Head Taekwondo Instructor
Toronto, ON, Apr '12 – present