

Vincent Russo

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EXPERIENCE	<ul style="list-style-type: none">◇ Graduate Researcher – University of Waterloo, Waterloo, ON Sep 2012 – Dec 2016 (anticipated)<ul style="list-style-type: none">– Contributor to <i>QETLAB</i>; a software package used to study theoretical aspects of quantum computing. Software has been cited in numerous scientific publications.– Published 10 papers in peer reviewed journals and open-sourced all software used in these papers.◇ Software Engineer, Intern – Raytheon BBN Technologies, Cambridge, MA May 2012 – Sep 2012<ul style="list-style-type: none">– Contributed to the development of <i>QuaFL</i>; a statically typed domain specific language to study quantum computing using Python.– Coordinated management of software projects between three teams in different countries.◇ Research Assistant – Wayne State University, Detroit, MI Nov 2010 – Jan 2012<ul style="list-style-type: none">– Contributed to development of <i>GOMC</i>; a GPU-driven open-source Monte Carlo simulation engine written in C++ that uses the CUDA library. Our software yields a 29 times faster implementation than an optimized serial CPU-driven code.◇ Software Engineer – Wayne State University, Detroit, MI Nov 2010 – Nov 2011<ul style="list-style-type: none">– Developed a web client in PHP and Python to interface with mobile devices that tracked and stored data from several hundred patients in a MySQL database. Software has been cited in peer-reviewed work.◇ Software Engineer, Intern – University of Michigan, Ann Arbor, MI May 2010 – Sep 2010<ul style="list-style-type: none">– Processed several hundred gigabytes of data sent back from spacecraft. Used IDL, C++, and Python to perform analysis and data visualization for internal reports.– Solved an issue unresolved by NASA engineers by analyzing anomalous data sent back from spacecraft. Presented an oral and written report of work to department.
EDUCATION	<ul style="list-style-type: none">◇ University of Waterloo Sep 2012 – Dec 2016 (anticipated) PhD, Computer Science◇ Wayne State University Sep 2010 – Aug 2011 MSc, Computer Science◇ Wayne State University Sep 2007 – Aug 2010 BSc, Computer Science
AWARDS	<ul style="list-style-type: none">◇ Recipient of David R. Cheriton Graduate Scholarship in computer science (Award amount: \$10,000).◇ Recipient of the National Science Foundation's IT Communities of Practice Award in computer science.
INDEPENDENT PROJECTS	<ul style="list-style-type: none">◇ Developed Android applications in Java totalling over 1,500 downloads from the Google Playstore.◇ Contributed code for symbolic manipulation of quantum mechanical operators to SymPy.◇ Built an Android application for a NASA sponsored event that uses machine learning and visual recognition tools to study climate change.◇ Host and write my own blog using Jekyll. Posts on programming and machine learning.◇ Developed various software projects as a freelance developer.
ADDITIONAL EXPERIENCE	<ul style="list-style-type: none">◇ Machine Learning Foundations – certificate earned - (Coursera E-learning).◇ Stanford: Statistical Learning – with distinction - (Stanford Online).◇ Intro to Machine Learning and Intro to Data Science – audit - (Udacity E-learning).◇ Served as teaching assistant for courses based on Algorithms and Data Structures, Discrete Mathematics and Python Programming.
TECHNICAL SKILLS	<ul style="list-style-type: none">◇ Languages: Python, C/C++, Matlab, Java, MySQL, PHP, R, JavaScript*, Haskell* (*some experience)◇ Tools: NumPy, SciPy, Scikit-Learn, Pandas, Matplotlib, Regex, L^AT_EX, Django, bash, git
