

# Daniel Agar

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## CONTACT INFORMATION

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## PROFESSIONAL EXPERIENCE

### IBM

Ottawa, Ontario

*Virtual Machine Software Developer*

**January 2012 – Present**

- Development work on IBM's J9 Java Virtual Machine.
- Implemented features for Java 7 and 8.
- Improved large multisite continuous integration system by introducing various levels of caching.
- Worked with C, C++, Java, and assembly (x86, ppc, s390) across Linux, Windows, AIX and z/OS.

### IBM

Ottawa, Ontario

*Extreme Blue Technical Intern*

**May 2011 – August 2011**

- Incorporated experimental J9 Java virtual machine features into IBM products to improve performance and memory footprint.
- Collaborated with a small team to create a compelling business case and demo to obtain further investment in the project.
- Worked with Java, C++, Python and encountered a wide range of IBM products and technologies.

### Oceanic Consulting Corporation

St. John's, Newfoundland

*Software Developer*

**July 2009 – September 2010**

- Heavily modified existing numerical software, in some cases reducing execution time by an order of magnitude.
- Adapted research code for commercial use.
- Created custom 3D visualization and mesh editing tools with OpenGL and Qt.
- Worked extensively with Python, Fortran, C++, Qt, OpenGL, Java.

## EDUCATION

### Carleton University

Ottawa, Ontario

*Computer Science*

**2010 – 2011**

- Relevant Courses: operating systems, algorithms, compilers, networking, computer vision GPA: 11.75/12

### University of Waterloo

Waterloo, Ontario

*BSc, Honours Computational Physics*

*Computer Science Minor*

**2009**

- Studied a wide range of courses in applied and theoretical physics, applied mathematics and computer science

## SKILLS

### Programming Languages

- Proficient in Python, C, C++, Java, Fortran, Bash
- Experience with Perl, SQL, Javascript

### Operating Systems

- Very experienced with GNU/Linux and Windows
- Familiar with OS X, FreeBSD, Android

### Software

- Eclipse, Visual Studio, Git, Subversion, GDB, Matlab, MySQL