

Daniel Agar

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

IBM

Virtual Machine Software Developer

Ottawa, Ontario

January 2012 – Present

- Development work on IBM's J9 Java Virtual Machine.
- Initially worked on performance, customer defects, and features for Java 8.
- Spent the last year on an experimental project extracting and applying Java runtime technology (gc, jit, portability, serviceability) to Python and Ruby.
- Drove git adoption and improved large multisite continuous integration system.
- Worked with C, C++, Java, Python, and assembly (x86, ppc, s390) across Linux, Windows, AIX and z/OS.

IBM

Extreme Blue Technical Intern

Ottawa, Ontario

May 2011 – August 2011

- Part of a small self directed team of interns tasked with proving the viability of a new IBM JVM technology (packed objects).
- Incorporated experimental JVM packed objects into various IBM products to improve performance and reduce memory footprint.
- Successfully demonstrated the financial feasibility of the project to executive leadership and obtained further investment in the project.
- Worked with Java, C++, Python and encountered a wide range of IBM products and technologies.

Oceanic Consulting Corporation

Software Developer

St. John's, Newfoundland

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

Computer Science

Ottawa, Ontario

2010 – 2011

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

University of Waterloo

BSc, Honours Computational Physics

Waterloo, Ontario

Computer Science Minor

2009

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

SKILLS

Programming Languages

- Proficient in C, C++, Python, Java, Fortran, Bash

Operating Systems

- Very experienced with GNU/Linux, Android and Windows

Software

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