Daniel Agar

CONTACT
INFORMATION

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PROFESSIONAL
EXPERIENCE

Prioria Robotics, Inc   Gainesville, Florida
Software Engineer   **December 2014 – Present**
- Involved in all aspects of UAV software development including the autopilot, ground control station, and payloads
- Made significant open source contributions to PX4 and QGroundControl

IBM   Ottawa, Ontario
Software Developer   **January 2012 – August 2014**
- Development work on IBM's J9 Java Virtual Machine.
- Initial member of the OMR Project - https://github.com/eclipse/omr
- Extracted core memory management technology from IBM's Java Virtual Machine and used to improve performance of the Python and Ruby
- Worked with C, C++, Java, Python, and assembly (x86, ppc, s390) across Linux, Windows, AIX and z/OS.

IBM   Ottawa, Ontario
Extreme Blue Technical Intern   **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 feasability 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   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

University of Waterloo   Waterloo, Ontario
BSc, Honours Computational Physics
Computer Science Minor   **2009**
- Studied a wide range of topics in applied and theoretical physics, mathematics, and computer science

SKILLS

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