

Daniel Agar

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

Vayu, Inc

Software Lead

Ypsilanti, Michigan
August 2016 – Present

- Lead software development of a long range autonomous vertical take-off and landing (VTOL) vehicle for the purpose of medical aid delivery in developing countries.
- Control system development and tuning
- Cross platform (Windows, Linux, MacOS, iOS, Android) ground control software

Prioria Robotics, Inc

Software Engineer

Gainesville, Florida
December 2014 – August 2016

- 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

Software Developer

Ottawa, Ontario
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

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

University of Waterloo

*BSc, Honours Computational Physics
Computer Science Minor*

Waterloo, Ontario

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