

JON VOLKMAR

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SUMMARY

Software engineer with a penchant for C++ development and big data processing

Hands on experience with data visualization and graphics programming for research and creative applications

Academic work in machine learning and computer vision

PROFESSIONAL EXPERIENCE

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| 2014-pres. | Software Engineer, <i>Microsoft Corp., Windows Shell</i> <ul style="list-style-type: none">· Development of telemetry infrastructure for text input: back-end data management, scripting against terabyte scale data sets, design and implementation of client-side logging infrastructure· Design and implementation of pen and inking UX features in Windows Shell |
| 2013-2014 | SDE, <i>Microsoft Corp., Windows Phone Text Input</i> <ul style="list-style-type: none">· Processing and managing of big data for language model features· C++ coding on UI and accessibility features for text input |
| Feb 2013-Jun 2013 | Independent freelance software developer <ul style="list-style-type: none">· Developed functional prototypes of audio-reactive 3D visualization software, for the client's creative applications. 3D wireframes generated in low-level OpenGL react to changes in audio amplitude as well as generic OSC messages transmissible over a network |
| Summer 2012 | SDE Intern, <i>Microsoft Corp., Windows Phone Text Input</i> <ul style="list-style-type: none">· Data collection and prototyping for shape writing text input feature on the Windows Phone. Implemented with OS-level C++ |
| 2010-2012 | Part-Time Research Assistant, <i>Desautels Faculty of Management Department of Information Systems, McGill University</i> <ul style="list-style-type: none">· Research and development for a web-based instant messaging application, using Node.JS, JavaScript, HTML, CSS, deployment to an Amazon AWS server· Design and development of a web scraper for data collection, implemented in Python |
| Summer 2011 | Program Manager Intern, <i>Microsoft Corp., Skype for Business (Formerly Lync)</i> <ul style="list-style-type: none">· Feature design for a mobile application, including management of requirements, team coordination, UI mock-ups, and authoring of specification documents |
| 2010-2011 | Part-Time Software Developer, <i>Infocubed, Montreal</i> |

- Development of an XML document authoring add-in for Microsoft Word, developed in C#
- Development of a data visualization add-in for Microsoft Excel, allowing data entered in a spreadsheet to be visualized on a geographic map

RESEARCH EXPERIENCE

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| Fall 2011 | Researcher, <i>Reasoning and Learning Lab, McGill University</i> |
| | <ul style="list-style-type: none">· Research, and development in machine learning algorithms for autonomous robot navigation· Data collection with Kinect sensor, programming of simulations and 3D visualizations |

EDUCATION

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| 2009-2013 | B.Sc., Computer Science, <i>McGill University, with semester abroad at Freie Universität Berlin</i> |
| 2007-2009 | Undergraduate Music Student, <i>Western University</i>

2 years of Bachelors of Music completed, with 21 additional credits earned in the Department of Science |