

Erika Harrison

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COMPUTER SKILLS:

- Operating Systems: Windows 10/8/7, Linux/Unix - Red Hat, Ubuntu, Mac OSX
 - Languages: C++/C/C#, Java, Javascript, HTML, PHP, MySQL, Python, Xcode
 - Libraries: Qt, OpenGL, DirectX, OpenCV, boost, Point Cloud Library, WebGL
 - Software: Visual Studio, Git, Azure DevOps/TFS, Jira, Blender/Maya, Houdini, GIMP/Photoshop, Unity
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EMPLOYMENT

Software Developer

GEOSLOPE, Calgary, Alberta

January 2016 to present

- *within an accuracy-oriented geotechnical application, developed and debugged business-critical components on a collaborative team - CI/CD, Agile/Scrum, C++, 3rd-party libraries, interprocess programming for Windows*
- *assisted extending 2D product to 3D including architecture, design and development; development of modeling and meshing tools, domain visualization, numerical solvers, API and windowed interprocess communication; lead developer on MFC to Qt migration; interviewed and mentored interns*

Escalation Developer

Softimage, Montreal, Quebec

April 2007 to June 2008

- *within a comprehensive 3D graphics application, developed and debugged a variety of high-need components requiring swift delivery - C++, OpenGL, multi-threading support for Windows and Unix*
- *supported rendering, 3D object and mesh manipulation, shaders, physical simulation and state-based AI*

Junior 3D Graphics Software Developer

Calgary Scientific Inc, Calgary, Alberta

August 2006 to March 2007

- *developed and extended the rapidly expanding C/C++ codebase for the company's main medical imaging solution, supplementing the part-time senior graphics developer*
- *researched advanced algorithms and medical technologies for use in development*

EDUCATION

University of Calgary, Calgary, AB

January 2012 to December 2018

PhD Candidate in Computer Science - Did not finish

Thesis: 3D Reconstruction of Organic Shapes

Additional: Sessional Instructor - Intro. to Computer Graphics (Fall 2015); TA (Sept. 2009 - Apr. 2015) for Data Structures & Algorithms; and Intro. to Computer Graphics. Awarded Best TA - 3rd year course (Fall 2010).

University of Calgary, Calgary, AB

September 2009 to December 2011

Masters of Science, in Computer Science

Thesis: Equal Area Subdivision

University of Waterloo, Waterloo, ON

September 2001 to April 2006

Bachelors of Mathematics, with Honours Co-operative in Computer Science

Additional Electives: Fine Arts Electronic Imaging, Zoology

ADDITIONAL SKILLS

LEADER/COORDINATOR:

- Cross country ski trip organizer (Winter 2010 to present), instructor (2012 to 2017) for the Calgary Ski Club
- Swimming instructor & part-time lifeguard for the City of Calgary (May 2009 to June 2014)
- Hiking trip leader for Calgary Outdoor Nuts; Calgary ThirtySomethings (Summer 2012 to Fall 2014, Summer 2015)
- One of four directors for UW's Math Orientation Week 2004 (Fall 2003 to Fall 2004). Responsibilities included:
 - Collaborating with other directors; hiring and motivating 150 volunteer leaders; coordinating 1,000 first year math students
 - Organizing coordinators in acquiring sponsorship, construction of a first year handbook, clothing and novelty orders for leaders and first years, budgeting and finances, three major leader events, and four major first year events.
 - One of two co-ordinators for a UW Spirit Day within Orientation Week for 5,000 first year students

VOLUNTEER:

- codeTEEN volunteer with Calgary Public Library (Jan - Feb 2020)
- YYC Tech Gives - Spam Cup volunteer (Dec 2017, Dec 2018)
- Volunteer for Grizzly Research, Banff National Park (Fall 2014 to Fall 2015)
 - Wildlife camera set up/take down, and image processing
- Volunteer for the Lake Louise Loppet (2011 - 2018)
- IT/Web volunteer for the Calgary Ski Club (Feb 2015 - Sept 2018)
- Volunteer for the Friends of Kananaskis (2013 - 2016)

ACTIVITIES & INTERESTS

- Member of Calgary's Chic Geek - Women in Computers Community (Fall 2014 to Fall 2017)
- Participant of Calgary Ultimate Association's summer teams (Summer 2009 - Summer 2013)
- Assistant in the CEMC Young Women's Computer Science Seminar
Calgary, AB, June 2010 - 2013 (one week seminar)
- Enjoy: hiking, skiing, swimming, frisbee and watching movies