

**Sean Fisk**  
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## Objective

Dedicated Computer Science graduate pursuing position in high-performance computing.

## Education

<b>Grand Valley State University</b> Bachelor of Science degree in Computer Science/Honors College <i>Recipient of full scholarship, G.P.A. 3.857.</i> Pursuing a Master of Science degree in Computer Science, expected graduation December 2013 <i>Recipient of Graduate Assistantship in High-Performance Computing lab, current G.P.A. 3.914.</i>	Allendale, MI 2008 - 2012  2011 - Present
<b>Jenison High School</b> Diploma, 2008; G.P.A. 4.244 <i>Recipient of Computer Science Graduation Award and Orchestra Leadership Award, Grand Rapids Press Superstar Senior, National Merit Finalist, National AP Scholar</i>	Jenison, MI 2004 - 2008

## Work Experience

<b>Atomic Object</b> <b>Software Developer</b> Groovy and Grails (Java-based) Web Development	Grand Rapids, MI May 2012 – August 2012
<b>Atomic Object</b> <b>Apprentice</b> iPhone Development Web Development Ruby on Rails Development	Grand Rapids, MI May 2011 – August 2011
<b>International Material Control Systems</b> <b>Information Technology</b> Web Development Windows 2003/Active Directory Maintenance Backup Management Tech Support	Holland, MI June 2010 – August 2010
<b>MetroHealth Hospital</b> <b>Information Technology</b> Developed several programs that are used daily for MetroHealth. Created e-forms that are used by the hospital in their daily protocoling process. Developed database transfer programs.	Grand Rapids, MI 2007 – Present

## Relevant Coursework

<b>CIS 677 High-Performance Computing</b> Parallelized Local Sequence Alignment with Smith-Waterman using pthreads Parallelized Stochastic Biochemical Kinetics Simulation using OpenMP Genome-Wide Association via Microarray Analysis using MPI Edge Detection with the Sobel Operator using NVIDIA CUDA	September 2011 – December 2011
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**CIS 380 Computational Science**  
Numeric Differentiation and Integration  
DNA Analysis  
Data Visualization  
Conway's Game of Life  
Advanced Real-Time Equation Graphing Tool

January  
2012 –  
April 2012

**Graduate Assistantship for High-Performance Computing Lab**  
Develop new website for the lab  
Install new project management server using Gitlab  
Develop showcase project – CpG island location using Hidden Markov Models  
with Python and OpenCL

September  
2012 –  
Present

## Skills and Abilities

**Programming Languages** Python, C++, C, bash, Emacs Lisp, Java, PHP, Objective-C, Web (HTML, CSS, JavaScript, HAML, SASS/SCSS, CoffeeScript), Groovy, SQL, ActionScript 2 & 3, L<sup>A</sup>T<sub>E</sub>X

**Libraries (Python)** Standard Library, PySide (Qt), unittest, pytest, mock, Requests, lxml, Cython, Jython, PyPy, SciPy, NumPy, matplotlib, SQLAlchemy, Mayavi, Sphinx/reStructuredText

**Libraries (C/C++)** Q Toolkit (Qt), Boost C++ Libraries, Message Passing Interface (MPI), pthreads, OpenMP, NVIDIA CUDA, LLVM, GraphicsMagick, CGAL, ncurses

**Tools** bash/zsh, git, Emacs, tmux, SSH, SCons, GNU Make, Gitlab, Github, GCC, Clang/LLVM, MSVC, MinGW, Flex/Bison (Lex/Yacc), Opscode Chef

**System Administration** GNU/Linux servers, Windows Server 2003, Active Directory

**Operating System Experience** Mac OS X, iOS; Microsoft Windows XP, Vista, 7; GNU/Linux Ubuntu, Debian, Fedora

**Web development experience** Jekyll/Octopress, Wordpress, Drupal, jQuery, Grails, ExtJS, Ruby on Rails, ExpressionEngine

**Experienced in software testing and Test-Driven Development**

**Extremely comfortable in a UNIX-like shell**

**Skilled in documentation**

**Computer networking experience**

**Desire to learn**

**High work ethic**

**Excellent communication skills, both verbal and written**

**Strong interpersonal skills**

**Very organized**

**Respectful of others**

## Interests

High-performance computing, application programming and distribution, free and open-source software, guitar, singing, mountain biking, marching band, drumline, flying disc, being outdoors.

## References

Available upon request.