

Sean Fisk
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Objective

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

Education

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

Relevant Coursework

CIS 677 High-Performance Computing	September
Parallelized Local Sequence Alignment with Smith-Waterman using pthreads	2011 –
Parallelized Stochastic Biochemical Kinetics Simulation using OpenMP	December
Genome-Wide Association via Microarray Analysis using MPI	2011
Edge Detection with the Sobel Operator using NVIDIA CUDA	
Measurement of speedup in relation to Ahmdal's and Gustafson's laws	
CIS 380 Computational Science	January
Numeric Differentiation and Integration	2012 –
Applied Mathematics	April 2012
DNA Analysis	
Data Visualization	
Cellular Automata - Conway's Game of Life	
Graduate Assistantship for High-Performance Computing Lab	September
Future development of new website for the lab	2012 –
Future installation of new project management server using Gitlab	Present
Future development of showcase project – CpG island location using Hidden Markov Models with Python and OpenCL	

Work Experience

Atomic Object	Grand Rapids, MI
Software Developer	May 2012 –
Groovy and Grails (Java-based) Web Development	August 2012
Atomic Object	Grand Rapids, MI
Apprentice	May 2011 –
iPhone Development	August 2011
Web Development	
Ruby on Rails Development	

International Material Control Systems
Information Technology
Web Development
Windows 2003/Active Directory Maintenance
Backup Management
Tech Support

Holland, MI
June 2010 –
August 2010

MetroHealth Hospital
Information Technology
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

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^AT_EX

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, outdoor activities.

References

Available upon request.