

Nathaniel Moseley

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Seeking a 6 month co-op internship to enhance and utilize my computing skills and creativity.

Skills:

- Dependable and Responsible
- Detail-oriented
- Visually motivated
- Works well with others
- ♥ English
- ♥ Japanese
- ★ German
- ★ Latin

Proficient

- ♥ Java
- ♥ JavaScript
- ♥ Python
- ♥ HTML
- ♥ Matlab
- ♥ CSS
- ♥ Various Debian Linux
- ♥ Vim
- ♥ IntelliJ

Knowledgeable

- ★ C#
- ★ XML
- ★ C++
- ★ PHP
- ★ L^AT_EX
- ★ SQL
- ★ Windows
- ★ Microsoft Office

Some Experience

- Ant
- UML
- Shell Scripting
- Maven
- Haskell
- Windows Batch
- Lisp
- Prolog
- MIPS Assembly
- Apple OS X, OS 9
- Eclipse
- SVN/CVS/RCS
- Adobe Products
- Visual Studio

Education:

Rochester Institute of Technology

Master of Computer Science Focus on Computer Vision and Bachelor of Computer Science
Minor in Japanese Language and Psychology

Expected August 2012
GPA: 3.261

Relevant course titles on back

Related Work Experience:

Application Support Engineer

Newstex, LLC.

March 2011 - June 2011
Rochester, NY

- Programmed backend development, fixes, and documentation

Software Developer

Rochester Institute of Technology - Center for Integrated Manufacturing Studies

November 2009 - June 2010
Rochester, NY

- Performed bug fixes, testing, code review, and feature implementation, leading to increased customer satisfaction
- Solo and collaborative work using company instant messaging and ticketing system

Additional non-related work experience on back

Projects:

Image Scene Recognition:

- Automatically classify an indoor or outdoor scene
 - Programming and training Self Organizing Maps
- Matlab
Team of 2

Parallel -Doku Solver:

- Parallelize to more quickly solve larger puzzles
 - Attempt optimal speedup and sizeup when run in parallel
- Parallel Java
Team of 2

GPS Database:

- Path data storing and analyzing database program
- Team of 3 using Oracle SQL Server and Java

Comix patches:

- Open source comic book archive and image viewer
 - Bug fix and feature patches:
GIF capability, progress display, background enhancement
- Python using PyGTK
Bug fix incorporated into source tree
Diff files submitted on SourceForge

Pidgin MMO Interaction:

- Plugin for chatting through an online game remotely
 - Understanding program execution through Assembly code
- C++ and C#
Attempted memory reading hooks

Courses:**Graduate Level:**

- Advanced Computer Vision
- Database Implementation
- Introduction to Computer Vision
- Intelligent Security Systems
- Algorithms
- Cryptography 2

Undergraduate Level:

- Parallel Computing 1
- Artificial Intelligence
- Operating Systems
- Computer Science 4 (C++)
- Database Concepts
- Introduction to Functional Languages
- Computer Organization
- Computer Science 1-3 (Java)
- Cryptography 1
- CS Theory
- Software Engineering
- Professional Communications
- Data Communications and Networks

Additional Work Experience:**Busser and Host**

Tsunami Sushi Bar and Restaurant

February 2007 – August 2007, Summer 2008, Summer, 2009

Salt Lake City, UT

- Operated as customer service, restaurant cleanliness, set-up and closing
- Performed seating, phone answering and take-out
- Alleviated wait staff and hosts, resulting in increased productivity and customer satisfaction

Volunteer

Ten Thousand Villages

2006 – 2007

Salt Lake City, UT

- Conducted customer service, inventory, unloading, and stocking
- Assisted as cashier, painter, helped building and moving to new location

References available on request**Additional Projects:****Newstex Work:**

- Cloud syndication system backend
- Python, JavaScript, Amazon AWS

CIMS Work:

- Large vehicle health analysis system
- Database updates, networking optimization, hardware interface interoperability
- Java, Ant, Maven, Microsoft SQL Server, and MySQL

Database Improvements:

- Added storage type functionality to BerkeleyDB
- Team of 4 using Java

Manga OCR System:

- Automatically segment Japanese characters in manga images
- Future work: recognize, and translate characters
- Matlab

Functional Programming:

- Implemented various list manipulation functions
- Lisp, Prolog, and Haskell (47 functions in 319 lines)

Server Interactions:

- Pre-built basic server client implementation
- Added user input, server communication, and resultant output
- C (300 lines)

Computer Organization:

- British square game program with AI
- Input, output, and error messages
- MIPS Assembly
- 762 lines

Software Engineering:

- Created a calendar application for “users”
- Testing Leader, Quality Assurance Manager and later Co-Project Leader
- Java team of 5 (About 8000 lines)

Generic Game-playing Algorithm:

- Operated on a variety of console based games
- C++ team of 2

Woodworking:

- Various furniture designs with 3D modeler
- Artistic display box and stand within class restrictions using poplar
- Constructed shelving and towel rack for personal use

Extras:Many quarters on RIT CS Dean's ListPianist for 13 years with numerous awardsActive alumni of **Computer Science House** at RIT

Hobbyist wood furniture maker and gardener