Brian W Salter

Seeking Post-Grad Employment, preferably dealing in Artificial Intelligence or Software Engineering.

EDUCATION

University of Minnesota - Twin Cities Minneapolis, MN

Bachelor of Science in Computer Science - Artificial Intelligence and Software Engineering Expected December 2013

- Cumulative GPA: 3.203/4.00
- Relevant Coursework: Data Structures Using Python, Scheme and C++; Algorithms using C++; Discrete Structures and Logic; Machine Architecture; Elementary Computational Linear Algebra; Internet Programming; Operating Systems; Introduction to AI; Program Design and Development; AI; Data Mining; Machine Learning

RELEVANT EXPERIENCE

Smart Information Flow Technologies Minneapolis, MN

Research Intern May 2013 – Present

- Contributed to projects for DARPA & other Gov't agencies through SBIR program
  - Influenced published paper on Fuzzbuster
- Benchmarked planning software used in Satellites (CIRCA)

University of Minnesota Computer Science Department Minneapolis, MN

Teaching Assistant September 2011 – Present

- Teaching Assistant for intro level CSCI courses (CSCI 1901, 1902, 1913)
  - Coordinated development of an Android tablet application for use in future semesters
  - Instructed students in basic programming through use of Scheme, Python and Java
- Constantly increasing my knowledge of Scheme, Python and Java

Thomson Reuters Eagan, MN

Technical Writer May 2012 – August 2012

- Organized documentation for an entire department
  - Designed an organizational structure for 1600+ pages of documentation used by 100+ employees
- Designed and programmed a Java and SQL based solution to monitor web service timeouts
  - Helped eliminate the generation of thousands of emails per day
- Developed and implemented a shell script to generate 14,000+ QR codes
  - Used with mobile websites to help customers generate advertisements

PROJECTS ***http://github.com/saltosaurus***

Fuzzbuster May 2013 – Present

- Employed Artificial Intelligence techniques to improve functionality substantially
- Solved critical generalization problems in current algorithms
- Increased effectiveness of Fuzzbuster in real-world application

PÜMA - https://github.com/saltosaurus/PUMA February 2013 - Present

- Manipulated large-scale database to reduce data complexity
- Analyzed data using several machine learning algorithms
- Actively working to improve results by implementing more sophisticated algorithms

Personal Website - https://github.com/saltosaurus/saltosaurus Summer 2013

- Conceptualized and built a site from scratch using skills learned through independent study
  - HTML5, CSS3, JavaScript, jQuery, Coffeescript, Sass
- Constructed using Flask, a Python microframework

SKILLS

Programming Languages

- *Proficient*: Lisp, Python, C++
- *Familiar*: MATLAB, Java, HTML5, CSS3, C#, SQL, Javascript, jQuery, Coffeescript, Sass, Ruby
- *Learning:* Objective-C, Ruby on Rails, Backbone.js, Haml, Node.js

Software

- *Development Environments*: Eclipse IDE, Emacs, Visual Studio 2010, Adobe Dreamweaver, Xcode 4
- *Other*: GIT, GNU Debugger, Subversion, Wordpress, Perforce, Django, Flask

HONORS & ACTIVITIES

- Dean's List Fall 2010
- Volunteer at Fairview Ridges Hospital December 2010 – November 2011
- Writing a Fantasy Novel