MaggieCasale

contact

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http://casal033.github.io

languages

Java, JavaScript, HTML, CSS, Clojure, Swift, Objective-C, C, Ruby, Bash Shell, & Unix Shell

libraries & tools

MEAN stack (MongoDB, Express, AngularJS, Node.js), Xcode, GitHub, Subversion, Gremlin, TinkerPop, Perl, Jython, VisualVM, Graphiz, RStudio, LATEX & Photoshop

databases

MongoDB, Neo4j, & Titan

systems

Linux, Mac, & Windows

processes

Agile Development, Version Control, Pair-programming, & Unit Testing

education

2012-2016 **B.A.** in Computer Sciences [3.307]

Minor in Mathematics

Expected Graduation: May 2016

University of Minnesota, Morris (UMM)

coursework

Data Structures, Development of Software Design, Algorithms & Computability, Human-Computer Interface Design, Models of Computing Systems, Evolutionary Computation & Artificial Intelligence, Senior Seminar

experience

Fall '15-Now Morris Academic Partnership with Professor Nic McPhee

Morris, MN

Data Manager & Analyst

- Using graph database tools (Neo4j, Titan, TinkerPop, Gremlin) to explore ancestry runs in evolutionary computation
- Understanding how evolutionary factors such as selection, recombination, and mutation work together to construct novel improvements
- Working with Graphiz to create visualizations of these runs to better analyze how individuals improve from generation to generation
- Presented this work in the Undergraduate Research Symposium at UMM
- Continuing work involves a research paper for GTPT at Ann Arbor this May, as well as a visualization workshop for GECCO in Denver this May

Fall '15 **Senior Seminar**

Research, Technical Writing, and Presentation

- Completed an in-depth survey of research literature in assistive technologies, with a focus on touchscreen interaction for motor-impaired users.
- Analyzed various published works, synthesized their contents, and produced a six-page research paper on my work. This work was presented formally in a conference setting, December 5th.

Summer '15 Morris Academic Partnership with Professor K.K. Lamberty

Morris, MN

Web/Application Designer & Developer

- Continued development on WordRiver & StoryBuilder, a MEAN stack website & iOS application
- Redesigned layout of WordRiver interface & API models
- Modified StoryBuilder to access relevant information from WordRiver
- Presented demo of work at Interaction Design and Children conference in Boston, July 2015

Spring '15 Directed Study: Web Design & Development

Morris, MN

Web Designer & Developer

- Continued development on URSA Major, a MEAN stack website for the University of Minnesota, Morris' Undergraduate Research Symposium
- · Kept group of five on task and organized
- · Added testing & error messages for development
- Fixed bugs & improved upon the website's features

interests

professional: I ♥ programming, hard work, being detail-oriented, organization, group work, research, documenting, and management.

personal: photography, traveling, golfing, scuba diving, being with friends or family, and learning new games.