MAGGIE CASALE

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EDUCATION

University of Minnesota-Morris *May 2016*
B.A. in Computer Science
Minor in Mathematics

CLASSWORK

Data Structures, Development of Software Design, Programming Languages: Human-Computer
Interface Design, Models of Computing Systems, Algorithms and Computability, Senior Seminar

TECHNICAL SUMMARY

Systems	Java, JavaScript, HTML, MEAN stack (MongoDB, Express, AngularJS, & Node.js), Xcode, Swift, Neo4j, Titan, Gremlin, TinkerPop, Bash, C, Ruby, Unix Shell, JFLAP, Perl, Jython (JES), R, Latex, GitHub, Subversion, VisualVM, Photoshop, Windows, Mac, Linux experience
Processes	Agile Development, Version Control, Pair-programming, Unit Testing

RELEVANT EXPERIENCE

Morris Academic Partnership with Professor Nic McPhee August 2015 - Current
Data Manager & Analyst *Morris, MN*

· Using graph database tools (Neo4j, Titan, TinkerPop, Gremlin) to explore ancestries in evolutionary computation
· Understanding how evolutionary tools such as selection, recombination, and mutation work together to construct novel improvements

Senior Seminar Fall Semester 2015

· 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.

Morris Academic Partnership with Professor K.K. Lamberty Summer 2015
Web/Application Designer & Developer *Morris, MN*

· 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

Directed Study: Web Design & Development Spring 2015
Web Designer & Developer *Morris, MN*

· 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