

# MAGGIE CASALE

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## EDUCATION

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

*May 2016*

## CLASSWORK

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

## TECHNICAL SUMMARY

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

## RELEVANT EXPERIENCE

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<b>Morris Academic Partnership with Professor Nic McPhee</b> <i>Data Manager &amp; Analyst</i>	August 2015 - Current <i>Morris, MN</i>
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- 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

<b>Senior Seminar</b>	Fall Semester 2015
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- 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.

<b>Morris Academic Partnership with Professor K.K. Lamberty</b> <i>Web/Application Designer &amp; Developer</i>	Summer 2015 <i>Morris, MN</i>
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- 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

<b>Directed Study: Web Design &amp; Development</b> <i>Web Designer &amp; Developer</i>	Spring Semester 2015 <i>Morris, MN</i>
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- 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