Danielle E. Williams

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SPECIALIZED SKILLS

Languages: English (native), Spanish (conversational), Japanese (advanced), French (novice)
Computer: Excel, R/RStudio, Ruby/Rails, SQL, Python/Pandas/Scikit/Numpy, Java, Tableau, C, SPSS, Git

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EDUCATION

Bachelor of Arts in General Science - Mathematics *August 2012 - May 2016*
Grinnell College, Grinnell, IA
- Related Coursework: Team Software Development, Research Methods (Psychology), Discrete Structures, Analysis and Design of Experiments, Statistical Modeling, Network Analysis, Algorithms and Object-Oriented Design, Linear Algebra, Functional and Imperative Problem Solving, Philosophy, Advanced Fiction Writing

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RELATED COURSE ACTIVITIES

Team Software Development *January 2015 - May 2016*
- Collaborated with members of MICA (Mid-Iowa Community Action) to develop a web application to better the Iowa community by allowing users to easily access local resources that may be of benefit to them
- Practiced agile development techniques, working in iterative cycles to complete specific tasks with my peers
- Provided solutions to enhance the application's quality and optimize its performance

Analysis and Design of Experiments, and Statistical Modeling *January 2015 - December 2015*
- Examined experiments from varied disciplines to determine what makes effective experimental design
- Explored and implemented knowledge of statistical techniques to effectively analyze experimental data
- Incorporated techniques from areas such as Bayesian statistics, risk statistics and regression modeling to explore research questions throughout the semester

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SELECTED LEADERSHIP EXPERIENCE

Peer Mentor and Research Assistant
Data Analysis and Social Inquiry Lab, Grinnell College *August 2015 – May 2016*
- Assisted students with research design for various projects, guided them in the use of statistical software, creating visualizations, and finding insights from their data
- Aided faculty with formatting and cleaning large data sets for use in research projects
- Provided class presentations and workshops for students to help improve their technical and analytic skills

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ADDITIONAL EXPERIENCE

Marketing Intern
Nightowl Technologies, New York *June 2015 - August 2015*
- Aided in the expansion of the application's consumer base to include six large metropolitan areas across the United States
- Developed and expanded the community of users through social media marketing
- Utilized data to provide insight about consumer base in order to inform future decisions

Writer
Scarlet & Black Newspaper, Grinnell College *September 2012 – April 2015*
- Reported on various school-related events in creative ways in order to increase reader interest
- Investigated student and community opinions on several issues
- Mediated interactions between students and editors to ensure comfortable relations between them