Danielle E. Williams

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SPECIALIZED SKILLS

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

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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, Social Network Analysis, Algorithms and Object-Oriented Design, Linear Algebra, Functional and Imperative Problem Solving, Machine Learning

- CAUSE Undergraduate Class Project Competition 2016, Honorable Mention
  Predicting the Amount of Money a Kickstarter Campaign Will Raise

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PROFESSIONAL EXPERIENCE

Data Engineer
New York Genome Center, New York *January 2017 - present*

- Analyze clinical tools to determine efficient ways to allocate resources and ultimately decrease latency in job performance on our batch-queueing system and increase overall throughput
- Manage and identify new areas for automation of the organization's large scale data transfer service, and recommend ways to improve the efficiency of our data transfers through analyzing historical transfer metadata
- Collaborate with bioinformatics scientists, IT, and project managers to define requirements and specifications for data analysis workflows, scientific data access, and the triage of issues in clinical workflows.

Data Quality Assurance
International Point of Contact, New York *August 2016 - December 2016*

- Identified areas in research projects needing revision to ensure data could be accurately collected
- Controlled quality of data through cleaning and standardizing data, and assisting in training interviewers
- Curated reports for clients based on collected data in Excel

Peer Mentor and Research Assistant
Data Analysis and Social Inquiry Lab, Grinnell College *August 2015 – May 2016*

- Guided students in applying research design methods, using statistical software, and finding data insights
- 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 analytical skills

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RELATED COURSE ACTIVITIES

Team Software Development *January 2016 - 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