651-587-9667   **Emily Ruetz**   ruetz007@umn.edu

Education

University of Minnesota – Twin Cities
Masters of Geographic Information Science   Expected May 2020

Bachelor of Science in Computer Science – *summa cum laude*   May 2018
Minor – Geographic Information Science

University of Auckland, New Zealand
Semester Study Abroad   February 2017 – July 2017

Work Experience

John R. Borchert Map Library
Graduate Research Assistant   September 2018 – Present
- Harvest, transform, edit, and publish metadata records for the BTAA Geoportal
- Create and maintain workflow documentation

Minnesota Geospatial Information Office
GIS Student Worker   May 2018 – Present
- Update Geospatial Commons datasets
- Provide assistance on Crash Conversion, NG911, and other major projects

University of Minnesota – Twin Cities
Undergraduate Researcher   January 2018 – May 2018
- Write undergraduate honors thesis
- Write Python scripts to find farm fields in OpenStreetMap data and output a polygon shapefile
- Participate in geospatial research group meetings

Abbott Laboratories
Contingent Worker – External   September 2017 – December 2017
- Write Perl scripts to assist email address change integration
- Develop a website for observing mobile application use and administration

St. Jude Medical
Computer Engineering Intern   July 2015 – February 2017
- Image hard drives for internal and customer use
- Assist with IT operations and weekly asset inventory

Cardialen Inc.
Independent Contractor   June 2015 – July 2015
- Analyze cardiac waveform data in search of cardiac arrhythmia

Computer Explorers
Teaching Assistant   Summer 2014, May 2015 – June 2015
- Assist in teaching technology-based courses to 1st-8th grade children
- Provide individual attention and assistance to students when needed

Skills

Programming Languages/Applications
- *Proficient*: ArcMap, ArcPro, Python, Java, C/C++, Microsoft Office, HTML, CSS, JavaScript, Perl
- *Experienced*: ArcOnline, Adobe Illustrator, Jupyter Notebook, Jira, SharePoint, WindChill

Platforms
  ◦ Windows 7/8/10, Ubuntu, Linux Mint, Red Hat Enterprise Linux

Leadership Experience/Activities

Minnesota Brass Inc.

Front Ensemble Member   2014-2016, 2018
  ◦ 2018 WGI Independent World Class Semi-Finalist
  ◦ 2018 DCI SoundSport Gold Medalist
  ◦ 2016 Center Marimba

References

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