

Coleman Shepard

SPATIAL · DATABASES · ANALYTICS

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Education

University of Minnesota

MASTERS OF GEOGRAPHIC INFORMATION SCIENCE

[Minneapolis, Minnesota](#)

Aug. 2017 - Exp. May 2019

University of Minnesota

B.S. IN GEOGRAPHY / MINOR IN GEOGRAPHIC INFORMATION SCIENCE

[Minneapolis, Minnesota](#)

Aug. 2013 - May 2017

Work Experience

University of Minnesota

GRADUATE RESEARCH ASSISTANT

[Minneapolis, Minnesota](#)

Aug. 2018 - PRESENT

- Creating an adoptable mechanism to evaluate and administer spatial and data science curriculum in the Jupyter Notebook environment.
- Building Python and database (Postgres) framework to log information about student's interaction within the environment.
- Building a REST api to service to maintain proper security for database and problem set solutions.
- Creating a front-end administration dashboard to monitor and assess curriculum and student participation.

Esri

PROFESSIONAL SERVICES INTERN

[Redlands, California](#)

May 2018 - Aug. 2018

- Presented in front of 12,000 people on the main stage of the largest geospatial conference in the world. (Esri User Conference Plenary Video)
- Assisting in the development of a park management platform for National Parks in Africa and South America.
- Automated asset management and workforce work flow solutions with Python.
- Participated in pricing reviews, project management, and provided key support on ongoing projects.

University of Minnesota - Geography Dept.

GRADUATE RESEARCH ASSISTANT

[Minneapolis, Minnesota](#)

Jan. 2018 - May 2018

- Designed an entire curriculum for Principles of Geocomputing course which focuses on building geospatial analytic skills with Python.

University of Minnesota - U-Spatial

GRADUATE RESEARCH ASSISTANT

[Minneapolis, Minnesota](#)

Aug. 2017 - May 2018

- Developed a web application using the for interactive crowd-sourcing in defining neighborhoods within Minneapolis.
- Updated and maintained the Minnesota Smart City Infrastructure web application.

Spatiotemporal Innovation Center - George Mason University

NSF REU FELLOW

[Fairfax, Virginia](#)

Jul. 2017 - Aug. 2017

- Worked on the Open Geospatial Consortium (OGC) Service portion of the Big Data platform.

University of Minnesota - U-Spatial

UNDERGRADUATE RESEARCH ASSISTANT

[Minneapolis, Minnesota](#)

Aug. 2017 - May 2018

- Provided geospatial analysis and technical support through the Help Desk to University of Minnesota students, staff, and faculty.
- Created a land cover classification product through random forest pixel classification.

Travelers Insurance

BUSINESS INTELLIGENCE AND ANALYTICS INTERNSHIP

[Saint Paul, Minnesota](#)

Jun. 2016 - Aug. 2016

- Assessed eight different vendors to improve the accuracy of internal location intelligence available to the enterprise.
- Assisted in the creation of data catalog to streamline the process of locating geospatial data in the enterprise.

University of Minnesota - Soil, Water, and Climate Dept.

UNDERGRADUATE RESEARCH ASSISTANT

[Saint Paul, Minnesota](#)

Feb. 2015 - Jan. 2016

Skills

Proficient

PYTHON, JUPYTER NOTEBOOKS, GIS SOFTWARE (ESRI/QGIS), SQL, POSTGRES, POSTGIS, LINUX, GIT, MS EXCEL, GOOGLE EARTH ENGINE

Experienced

GOOGLE COMPUTE ENGINE, ORACLE, R, HTML, CSS, JAVASCRIPT, KUBERNETES, DOCKER, TABLEAU

Additional Involvements

Tanzania Development Trust Volunteer

UNITED NATIONS ONLINE VOLUNTEER SERVICE PROGRAM

[Remote](#)

Jan. 2016 - Jun. 2016

Vice President

GEOGRAPHIC INFORMATION SCIENCE STUDENT ORGANIZATION (GISSO)

[Minneapolis, Minnesota](#)

Jun. 2017 - May 2018

Goldy the Gopher (University Mascot)

UNIVERSITY OF MINNESOTA

[Minneapolis, Minnesota](#)

Aug. 2013 - May 2014