Alexander C. Michels

✓ michels9@illinois.edu♦ alexandermichels.github.io♦ github.com/alexandermichels

EDUCATION	
Ph.D. in Spatial Informatics University of Illinois at Urbana-Champaign	In Progress
M.S. in Geography and G.I.S. University of Illinois at Urbana-Champaign	In Progress
B.S. in Mathematics and Financial Economics Westminster College	August 2015 - May 2019
EXPERIENCE	
CyberGIS and CyberInfrastructure Researcher CyberGIS Center & Geospatial Information Laboratory (CIGI)	Champaign, IL June 2019-Present
 Lead developer of projects including a Hadoop cluster and Cybe Supervised and mentored 4 undergraduate research assistants. Worked with tools including Docker, Docker Swarm, Kubernetes 	- ,
Data Scientist and Informatics Researcher Institute for Pure and Applied Mathematics at UCLA & Praedica	Los Angeles, CA t, Inc. June 2018 - Aug 2018
 Worked to automating information extraction, classification, and business profiling of over 52,600 companies and corporate entities 	
Systems Administrator and Software Engineer Titan Radio and WCN 24/7	New Wilmington, PA May 2018 - May 2019
- Responsible for the infrastructure required to keep the radio and	d television station operating.
Information Technology Intern Treloar & Heisel	New Castle, PA Sept 2018 - Dec 2018
- Maintained databases and wrote apps for company use in Java,	Python, and Visual Basic.
PROJECTS	
CyberGIS-Jupyter https://cy	m bergisxhub.cigi.illinois.edu/
 Platform for reproducible science using JupyterHub on DockerS Redesigned CJW to use Easybuild & Lmod and developed a ver 	
WhereCOVID-19 https://wh	$ m_{nerecovid 19. cigi. illinois. edu/}$
 Dashboard for displaying up-to-date COVID-19 statistics. Wrote pipeline to calculate access to medical resources. DOI: 10).1186/s12942-020-00229-x

Data Science: Big Data, G.I.S., Git, ML/AI, Parallel Programming, Network Science

Languages: Python, Bash, Javascript, C++, R, SQL

Technologies: Docker, Hadoop (HDFS/Spark/Yarn), Kubernetes, OpenStack, Terraform

Operating Systems: Linux, Windows

SKILLS _