# JUSTIN CAVE, GISP

GIS PROFESSIONAL

Technology-savvy individual with four years of relevant work experience and advanced certificates seeking a new geospatial opportunity. Skilled in working with data in the field and in the office in the public and private industries. Excellent communication skills, capable of solving big data problems.

# RELEVANT EXPERIENCE

**GEOSPATIAL PROGRAMMER/ANALYST** (FEBRUARY 2022-PRESENT) **GEOSPATIAL ANALYST-** (MAY 2021 -FEBRUARY 2022) **CONNECTED NATION** – Bowling Green, KY (Remote)

Conduct geospatial analyses and processing to help solve the digital divide across the US pertaining to broadband internet mapping.

**SMALL BUSINESS OWNER-** (JULY 2020 - PRESENT) **REDHOT MAPPING** – Knoxville, TN

Create custom scratchoff hiking challenge maps as well as offer geospatial consulting services part time. www.redhotmapping.com

GIS RESEARCH TECHNICIAN III - (JUNE 2019 – MARCH 2021) INGENIUM PROFESSIONAL SERVICES, OAK RIDGE NATIONAL LAB - Oak Ridge, TN

Analyzed high resolution Digitial Globe imagery to assist in training of machine learning algorithms in identifying settlement/non settlement areas. QA/QC and digitized vector and raster datasets. Created python scripts for data workflow model using arcpy, geopandas, and other open source packages in Jupyter Notebooks. Worked on other data workflow research project as assigned.

LAND SURVEY TECHNICIAN - (MAY 2018 - MAY 2019) PROFESSIONAL LAND SYSTEMS - Clinton, TN

Completed ALTA, Asbuilt, Topo, Boundary, and FEMA cert type surveys in east TN area. Operated all survey instruments, downloaded/preprocessed data, staked property lines, cut line, pinned footers, and read map plats.

FORESTRY RESEARCH ASSISTANT - (JAN. 2015- JAN. 2016) US FOREST SERVICE - Juneau, AK

Data management/QAQC of field forestry data. Created baseline maps using ArcMap for field site assessment. Managed field crew daily schedule and tasks. Collected GPS coords of sites and post-processed in Terrasync software.

CARTOGRAPHIC TECHNICIAN - (JAN. 2014- SEP. 2014) WESTERN KENTUCKY UNIVERSITY GEOGRAPHY DEPT. - Bowling Green, KY

Designed hydrologic, physical basemaps for Mammoth Cave National Park as part of a NPS Resource Management project using ESRI software.

# **EDUCATION & CERTIFICATION**

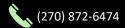
B.S. GEOLOGY - (2009-2014), WESTERN KENTUCKY UNIVERSITY - Bowling Green,

**GRADUATE GEOSPATIAL ANALYSIS** CERTIFICATE - (2018-2019), UNIVERSITY OF FLORIDA - Gainesville, FL

GEOGRAPHIC INFORMATION SYSTEMS PROFESSIONAL CERTIFICATE- (2022-CURRENT) , GISCI - DES PLAINES, IA

# **ORGANIZATIONS**

Tennessee Geogarphic Information Council (TNGIC), 2021-Present Cumberland Chapter of URISA, 2021-Present GISCorps, 2020-Present ASPRS, 2021-Present









# **TECHNICAL SKILLSET**

**ESRI File Geodatabase** 

PostgreSQL (PostGIS)

**ESRI SDE** 

MySQL

### **SELECT SOFTWARE**

# ESRI ArcGIS Desktop ESRI ArcGIS Pro Google Earth Pro ENVI QGIS Global Mapper Geoda Pathfinder Office Terrasync DATABASES

# Microsoft SQL Server

WEB/CLOUD PLATFORMS

ArcGIS Online	
StoryMaps, Dashboards	
Web App Builder	
Experience Builder	
Field Maps	
ArcGIS Server	
ArcGIS Enterprise	
Mapbox Studio	
CartoDB	
Google Cloud Platform	
BigQuery, Looker Studio	
Cloud SQL	
Cloud Storage	
Amazon Web Services	

# **CURRENT LEARNING PROJECTS**

Tableau Dashboard of COVID Deaths
Big Data Processing Using GCP BigQuery
ETL Data Processing Using Python

# FIELD DATA COLLECTION

Trimble Pro XT	
Juniper Allegro MX Datalogger	
Garmin GPS Map60CSx	
TopCon ES Series 103 Total Station	
KolidaPlus GNSS	

# PROGRAMMING/SCRIPTING

Python 2, Python 3		
Javascript/CSS/HTML		
R		
SQL		
Git		
Arcade		
Linux		

# OTHER RELEVANT SKILLS

Microsoft Office 365 Products Google Docs/Sheets Microsoft Teams, Zoom Tableau Microsoft Power BI

# **PERSONAL AWARDS & HONORS**

Eagle Scout Rank, Boy Scouts of America (2007)
Governors Scholar of Kentucky (2008)
Kentucky Colonel (2010)
Research Experience for Undergraduates, AMNH (2012)
Bicycled Across U.S. (3,200 miles) (2012)
2000 Miler Award, Appalachian Trail Conservancy (2017)