

# 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](http://www.redhotmapping.com)

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

Analyzed high resolution Digital 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, KY

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

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

## ORGANIZATIONS

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

## TECHNICAL SKILLSET

### SELECT SOFTWARE

ESRI ArcGIS Desktop	<div><div style="width: 85%;"></div></div>
ESRI ArcGIS Pro	<div><div style="width: 80%;"></div></div>
Google Earth Pro	<div><div style="width: 70%;"></div></div>
ENVI	<div><div style="width: 65%;"></div></div>
QGIS	<div><div style="width: 60%;"></div></div>
Global Mapper	<div><div style="width: 55%;"></div></div>
Geoda	<div><div style="width: 50%;"></div></div>
Pathfinder Office	<div><div style="width: 75%;"></div></div>
Terrasync	<div><div style="width: 70%;"></div></div>

### DATABASES

ESRI File Geodatabase	<div><div style="width: 85%;"></div></div>
ESRI SDE	<div><div style="width: 80%;"></div></div>
PostgreSQL (PostGIS)	<div><div style="width: 75%;"></div></div>
MySQL	<div><div style="width: 70%;"></div></div>
Microsoft SQL Server	<div><div style="width: 65%;"></div></div>

### WEB/CLOUD PLATFORMS

ArcGIS Online	<div><div style="width: 85%;"></div></div>
StoryMaps, Dashboards	<div><div style="width: 80%;"></div></div>
Web App Builder	<div><div style="width: 75%;"></div></div>
Experience Builder	<div><div style="width: 70%;"></div></div>
Field Maps	<div><div style="width: 65%;"></div></div>
ArcGIS Server	<div><div style="width: 60%;"></div></div>
ArcGIS Enterprise	<div><div style="width: 55%;"></div></div>
Mapbox Studio	<div><div style="width: 50%;"></div></div>
CartoDB	<div><div style="width: 45%;"></div></div>
Google Cloud Platform	<div><div style="width: 70%;"></div></div>
BigQuery, Looker Studio	<div><div style="width: 65%;"></div></div>
Cloud SQL	<div><div style="width: 60%;"></div></div>
Cloud Storage	<div><div style="width: 55%;"></div></div>
Amazon Web Services	<div><div style="width: 50%;"></div></div>

## 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	<div><div style="width: 85%;"></div></div>
Juniper Allegro MX Datalogger	<div><div style="width: 80%;"></div></div>
Garmin GPS Map60CSx	<div><div style="width: 75%;"></div></div>
TopCon ES Series 103 Total Station	<div><div style="width: 90%;"></div></div>
KolidaPlus GNSS	<div><div style="width: 85%;"></div></div>

### PROGRAMMING/SCRIPTING

Python 2, Python 3	<div><div style="width: 85%;"></div></div>
Javascript/CSS/HTML	<div><div style="width: 75%;"></div></div>
R	<div><div style="width: 70%;"></div></div>
SQL	<div><div style="width: 80%;"></div></div>
Git	<div><div style="width: 75%;"></div></div>
Arcade	<div><div style="width: 65%;"></div></div>
Linux	<div><div style="width: 60%;"></div></div>

### OTHER RELEVANT SKILLS

Microsoft Office 365 Products	<div><div style="width: 85%;"></div></div>
Google Docs/Sheets	<div><div style="width: 80%;"></div></div>
Microsoft Teams, Zoom	<div><div style="width: 75%;"></div></div>
Tableau	<div><div style="width: 65%;"></div></div>
Microsoft Power BI	<div><div style="width: 60%;"></div></div>

## 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)