

# GARRET KRAWCHISON

GEOSPATIAL ANALYST &  
SOFTWARE ENGINEER

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📍 Jacksonville, FL

## SUMMARY

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I am a Geospatial Analyst with broad experience applying Geographic Information Systems (GIS) technologies to enhance and streamline business operations. GIS is a diverse topic with many niche specialties, tools and extensions, and industry-specific knowledge. I have personally served in different industries including land surveying, highway transportation planning, renewable energy development, and the railroad industry with diverse cross functional needs. Most recently, I founded the Jacksonville-based company Primo Map LLC, a local real estate and business mapping agency. My technical skills lean heavily toward Python and scripting development, database management, SQL and PL/SQL, and web development, which all contribute toward strong GIS analysis with many different applications.

## EXPERIENCE

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### OWNER **Primo Map LLC (September 2017 – Present)**

In 2017 I formed Primo Map™ to serve the Northeast Florida region with premium aerial photography wall maps that feature real estate and business information. Although still a growing company, I am excited about the quality of the wall maps so far and look forward to producing more in the future. More information can be found at <http://primomap.com>.

### GIS ANALYST **Heery International, CSX Contractor (July 2011 – March 2017)**

- Developed the CSX team's linear referencing system (LRS) calibration tools and process in Python, which consisted of calibrating the rail network LRS using milepost locations along lines with matching prefixes.
- Positive Train Control (PTC) database management: loading, QA/QC data, updating asset locations; developing and testing new quality control scripts in SQL and Python.
- Large scale analysis of transportation stations and route network against physical asset locations to ensure quality routing between stations.
- Utilized Oracle database and Toad to perform analysis across multiple tables, quality control between data sources, and create custom SQL script tools.
- Mapping automation using arcpy.mapping and data driven pages.
- Created Models in ModelBuilder, ArcToolboxes, and Tools to aid in workflows.

- GIS ANALYST    NextEra Energy Resources (May 2008 – July 2011)**
- Provided GIS support for dozens of proposed and existing renewable wind, solar, and hydro projects in the NextEra development pipeline.
  - Procured digital and physical data from government and private agencies, including parcels, tax rolls, PLSS survey grids, environmental data, and more.
  - Edited, prepared, and loaded GIS parcel data and ownership details into the enterprise lease management system (LMS) called Quorum.
  - Developed custom mapping automation, GIS tools, and Python scripts, and administered SharePoint sites.

- GIS ANALYST    Lockwood, Andrews, and Newnam (June 2006 – April 2008)**
- Supported GIS and mapping requests for multiple projects for the Texas Department of Transportation.
  - Developed impact analysis matrix for alternative route comparisons (number and acreage of owners affected, wetland impacts, environmental and habitat impacts, utilities crossings).
  - Produced maps and materials for public meetings about highway expansions.

- GIS ANALYST    Coleman and Associates (September 2005 – June 2006)**
- Created maps for legal survey documents and oil/gas permits.
  - Performed historical research on properties at county courthouses.

**EDUCATION** 

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**TECHNICAL CERTIFICATE**    Computer Programming Technical Certificate with a focus in C and .NET. Florida State College at Jacksonville. 2015 – 2017.

**BACHELOR OF SCIENCE**    Geography Major, Biology Minor. University of North Texas. 2001 – 2005.  
National Student Exchange at the University of Hawaii at Manoa. 2002-2003.

**PYTHON TRAINING**    ESRI Campus Broomfield, Colorado. August 2010.  
ESRI Campus West Palm Beach, Florida. September 2009.

**SKILLS** 

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**PROGRAMMING LANGUAGES**    Python, SQL, PL/SQL, C#, ASP.NET, HTML, CSS, JavaScript

**GIS**    ESRI ArcMap, ArcCatalog, ModelBuilder, Routing and Linear Networks, Topology Rules, ArcPy, SDE, Geodatabases, Oracle Spatial, SDO geometries, Data driven pages and mapping automation, Mosaics, Rasters, Geocoding

**APPS & TOOLS**    Visual Studio, Toad, Pyscripter, Microsoft SharePoint, Microsoft Office, Adobe Photoshop