

Patrick McKinney

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<https://pnmcartodesign.com/>

GIS Professional Expertise

Administering ArcGIS Enterprise Systems | Administering ArcGIS Online Organizations | Managing Enterprise Geodatabases | Developing Web Map Applications | Automating Workflows with Python Scripts | Managing Organizational Software Licensing | Providing Technical Support to Users | Designing Maps for Print | Architecting Spatial Analysis | Editing Spatial Datasets | Capturing Assets with Mobile Data Collection

Software Development

Git | Python | ArcPy | ArcGIS API for Python | JavaScript | Leaflet.js | ArcGIS API for JavaScript | Node.js | Parcel.js | HTML | CSS | Bootstrap | Jekyll | SQL

Professional Activities

Contributing to Open Source Projects | Speaking at Conferences | Professional Conferences Committee Member | Improving Organizational Efficiencies

Career Summary

GIS Architect/Administrator

Pennsylvania Department of Health (October 2021-Present)

- Deploying and managing ArcGIS Enterprise in Azure environment
- Configuring and managing on-premise enterprise MS SQL Server geodatabase
- Administering ArcGIS Online, including content and user management
- Coordinating GIS Users Group, including quarterly meetings and SharePoint resources site
- Providing technical support to users, including dataset development, spatial analysis, and web map applications

Lead GIS Analyst & Developer

County of Cumberland, Pennsylvania (April 2013 - October 2021)

- Served as technical guide in the transition from stand-alone ArcGIS Server to a base deployment of ArcGIS Enterprise
- Increased efficiency of staff across multiple departments by architecting/deploying mobile data collection solutions, and developing custom ArcGIS Desktop geoprocessing tools
- Designed/Developed/Maintained web-based map applications using configurable apps, COTS products, and fully customized solutions

- Streamlined data updates to multiple departments and online web services by authoring python scripts and Windows scheduled tasks
- Provided technical assistance to multiple departments by designing printed maps, and performing spatial analyses
- Maintained addressing, public safety, and recreational enterprise datasets through editing in a multi-user versioned enterprise geodatabase environment

Countywide Planner

Lancaster County Planning Commission (December 2011- April 2013)

- Served as in-house GIS technical expert to all staff within organization
- Performed a variety of spatial analyses to support work in land use, transportation, and recreation planning initiatives
- Designed maps to support transportation, recreation, and tourism planning initiatives

Education Summary

M.S. in Geography (2011)

Indiana University of Pennsylvania

Studies concentrated in GIS technologies, with additional coursework in regional/community planning

B.A. in Earth Sciences (2007)

Millersville University of Pennsylvania

Studies concentrated on the foundations of geology, oceanography, meteorology, and astronomy; with additional coursework in biology, chemistry, and physics