

Contact

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Top Skills

GIS

LiDAR

Software Development

Certifications

Private Aircraft Pilot

Advanced Open Water Diver

Open Water Diver

CMAS* Diver

Certified Geographic Information Systems Professional (GISP)

Honors-Awards

National Science Foundation Grant

Excellence in Science Award

Engineering Project in Community Service (EPICS) Outstanding Leadership Award

Floyd & Nellie Elliott Scholarship

Fred M. Fraser Memorial Agriculture Scholarship

Alexandria Horne

Software Engineer | GISP

Cincinnati, Ohio Area

Summary

The future involves change. Change is, by nature, disruptive. Manage the status quo or lead the disruption.

Experience

GE Aviation

Software Engineer

October 2018 - Present (1 year 5 months)

Cincinnati, OH

- Member of DevOps team that applies principles of SDLC to develop and deploy high-quality software using the best practices and methodologies.
- Partner with stakeholders to understand security threats, technology risk, and business needs utilizing Agile methodologies.
- Research and gather requirements for product enhancements and potential new products.
- Drive world-class quality in the development and support of products as well as increased efficiency across teams.
- Design and implement core data structures and algorithms.
- Provide DevOps support to troubleshoot operational issues in a timely manner.
- Database management including: SQL Server, MySQL and PostgreSQL.
- Full stack development utilizing: JavaScript (React, Angular), HTML, CSS, TypeScript, NodeJS, Python, and SQL.
- Work with Linux, Windows and AWS environments.
- Other tasks involving: data science and analytics, API management, microservice architecture, GitHub, Docker, CI/CD, IAM and application security testing.

City of Cincinnati

Senior Computer Programmer Analyst

April 2014 - August 2018 (4 years 5 months)

Cincinnati Area Geographic Information System (CAGIS)

- Create, deploy, and support CAGIS GIS and permitting business software systems at an enterprise level leveraging Permits Plus and Accela Automation.

- Translate business process documentation into functional requirements for systems design.
- Script, configure and test automated processes with various programming languages including python, .NET, JavaScript and SQL.
- Research leading and emerging no technology trends for potential implementation.
- Creation, installation, and maintenance of enterprise, client, server, and desktop systems.
- Install, configure, upgrade and maintain hardware and software.
- Create and maintain technical documentation.
- Provide training and technical support to application users.
- Understand and practice the principles of computer network systems analysis and design.
- Network configuration, maintenance, security and diagnostic procedures and techniques.
- Database management of enterprise Oracle system (reliant on SQL).
- Front-end development (JavaScript, HTML, CSS) and user interface design.

GIS:

- Utilize ESRI ArcGIS, specifically ArcMap and ArcOnline, to perform spatial analysis, visualization, geoprocessing, data creation and management as well as providing cartographic services to end users.
- Interface and integration of GIS database systems with other public enterprise systems.

Clark State Community College

Adjunct Professor of Geogrpahy

2014 - 2015 (1 year)

Beavercreek, Ohio

Woolpert

Geospatial Analyst

March 2012 - April 2014 (2 years 2 months)

Dayton, Ohio

- Airborne LiDAR filtering, calibration, classification, cleaning, accuracy checks and analysis.
- Creation of LAS files, DEMs, DSMs, GeoTIFFs, IMGs and ArcGrids.
- Water body digitizing, classification, flattening and elevation analysis
- Cartography, layout generation and editing using DGN, DXF and SHP formats.

- Remote sensing multispectral and hyperspectral analysis using ERDAS IMAGINE.
- Creation and manipulation of Windows batch files, Python scripts and Terrascan macros.
- Feature extraction including roadways, buildings and vegetation canopies.
- ArcSDE database and versioning management
- LiDAR and survey data acquisition reporting and other technical writing.
- Extensive use of ArcGIS and Bentley Microstation.

Indiana University East
Adjunct Professor of Geogrpahy
2010 - 2012 (2 years)
Richmond, Indiana

Education

Purdue University
Bachelor of Science (B.S.), Atmospheric Science and Environmental
Science · (2005 - 2008)

The Ohio State University
Graduate Certificate, Soil Sciences · (2008 - 2010)

University of Cincinnati
Master of Arts (M.A.), Geography · (2010 - 2011)