

## Data Scientist and Python Developer

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### Experience

#### DTN, West Lafayette, IN Data Scientist, April 2018-Present

- Deploying and maintaining infrastructure for the data science team on AWS, including scalable computing, and data access/storage
- Training developers in Python development and best practices
- Developing and productionalizing the models for **Storm Impact Analytics**
- Creating and maintaining a data catalog used by Data Scientists across the company to access data for modeling and analysis

#### Spensa Technologies, West Lafayette, IN Web Developer, July 2015-April 2018

- Developing end-to-end features with both detailed and limited specifications
- Managing web and database servers along with expandable storage tools through AWS
- Communicating with numerous third-party organizations regarding various tools and integrations
- Integrating with several third-party services to allow users to asynchronously move their data to and from these other services
- Project management for multi-million dollar long-term contract, including prioritizing tasks, training and assistance for a team of developers and managing customer relationships
- Responding to and diagnosed server outages and customer issues

#### Lewis Cass, Walton, IN High School Teacher, September 2010-July 2018

- Teaching courses including Physics, Computer Science & Software Engineering & Principles of Engineering
- Introduced multiple new courses to the school, including beta-teaching **PLTW** Computer Science
- Researching, developing, delivering and revising effective lessons
- Creating and mentoring the Iron Kings, a FIRST Robotics team, who were able to advance to the World Championship in our rookie season
- Mentoring the team members in fundraising, software development, electrical wiring, etc. in the process of creating our robot

### Technical Experience

- Open Source    Contributed to a number of python libraries, including **intake**
- **intake-geopandas** • **apache arrow**

Helped to create a [custom plugin](#) for Intake which allows for the automatic population of a data catalog with data files matching a certain pattern

Program-  
ming Lan-  
guages

high proficiency: Python

medium proficiency: JavaScript

Technical  
Tools

ci/cd tools: Bitbucket pipelines, GitLab, Bamboo

data science packages: Pandas, Intake, Scikit-learn, Lightgbm

cloud architecture: Amazon Web Services (Batch, Fargate, Lambda, EC2, S3, RDS, CloudFormation, CloudWatch, IAM)

web development: Django, backbone.js, Postgresql, Postgis, Django Rest Framework, HTML, CSS

Side projects

Web development, design & hosting for various non-profit sites such as:

[Gentle Reformation](#) • [Women's Retreat](#) • [How Shall We Then Vote](#)

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Education

2009-2011

M.S.Ed, Mathematics and Physics Education; Purdue University (West Lafayette, IN)

2005-2009

B.S., Math & Physics; Purdue University (West Lafayette, IN)  
Minor: Computer Science

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