

# Zachary Blackwood

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Data Scientist and Python Developer

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## Experience

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

- Deployed and maintained infrastructure for the data science team on AWS, including scalable computing & data access and storage
- Trained numerous less-experienced Python 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 analysis and model training

### 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 2015

- Taught courses including Physics, Computer Science & Software Engineering & Principles of Engineering.
- Developed, delivered and revised effective lessons.
- Developed innovative materials and researched effective teaching methods and procedures.
- Created and mentored the Iron Kings, a FIRST Robotics team, who was able to advance to the World Championship in our rookie season.
- Mentored the students 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 (to be released as open-source shortly)

**Programming Languages**    **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*

**blackary.com • zacharyblackwood@gmail.com • 765-532-1649 West Lafayette, IN**