

# ZACK STRATHE

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Project Portfolio: [zstrathe.github.io](https://zstrathe.github.io)

## OBJECTIVE

Seeking full-time employment as a Data Scientist

## EDUCATION

**Kansas State University, Manhattan, KS**

**M.S. Data Analytics / In-Progress**

In-Progress

- Data Science track
- GPA: 4.0
- Expected completion: August 2022
- Relevant coursework:

**Programming Techniques for Data Science and Analytics:**

*Evaluated methods of feature selection and compared performance of image classification algorithms, entirely using the Apache PySpark distributed computing framework, with a data set of 500,000 labeled satellite images*

**Principles of Artificial Intelligence**

*Trained a reinforcement learning agent to play the game Mario Bros, using OpenAI's Gym framework in Python, and evaluated methods of improving the trained proximal policy optimization (PPO) model with modifications to the state-space, the action-space, and the reward function.*

**Machine Learning and Pattern Recognition**

*Developed and evaluated unconditional text generation language models with a text corpus of song lyrics, utilizing recurrent neural networks (RNNs) and generative adversarial networks (GANs) in Python with the PyTorch deep learning framework*

**B.S. Business Administration**

December 2012

- Emphasis in financial management

## SKILLS

- Programming languages:  
Python, R, SQL
- Pandas (Python data analysis Python package)
- Scikit-learn (machine learning Python package)
- Apache PySpark
- Data Visualization Tools:  
Tableau, Matplotlib (Python package), ggplot2 (R package)

## CERTIFICATIONS



## EXPERIENCE

**Crestwood Midstream Partners LP, Kansas City, MO**

Settlements Analyst II

April 2018 – January 2021

Settlements Analyst

August 2015 – March 2018

- Developed GUI script in Python to automate process of uploading expenses into cloud-based environment
- Managed daily contract allocations and billing, and monitored accounting transactions for purchases and sales of LPGs for various marketing groups, and monitored marketing P&L statements to identify, analyze, and correct accounting valuation errors
- Produced monthly financial reconciliations for producer agency marketing agreements totaling approximately \$200M annually

**HNTB Corporation, Kansas City, MO**

Billing Associate

October 2013 – August 2015

- Managed monthly billing process for approximately 75 architecture and civil engineering projects