## Zach Schumacher

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Profile

As a data engineer with demonstrated experience in a variety of industries and technologies, I can provide value to any organization through my proficiency in **leadership**, python, and data architecture.

Experience

Senior Manager Data Engineering, Simplebet; New York, New York – 2021-Present Senior Software Engineer, Simplebet; New York, New York – 2019 Nov-2021

- Lead and mentor team of 5 engineers of varying skill levels
- Groom and prioritize backlog and help team set weekly goals
- Lead architect in building data streaming solution for click stream data and real time user betting behavior
- Wrote bash script for all teams to use in CI pipelines for publishing Avro schemas to the confluent schema registry
- Wrote ETL library in python for ensuring reusable, modular and well tested data pipelines
- · Developed end to end CI pipeline for deploying pyspark code to databricks
- Developed an error handling mechanism using python and postgres that is **currently part of a patent application**
- Used Apache Airflow for task orchestration, deployed on Kubernetes
- · Develop and maintain REST API on top of data warehouse using DRF
- Automated database migrations using Django
- Helped machine learning engineers deploy models by supporting MLFlow

Software Engineer, Quest Analytics; Kansas City, Missouri – 2019 June-Nov (Contract)

- Rewrote legacy ruby REST api using Flask and SQLAlchemy
- Collaboratively designed new schemas for data warehouse and automated migrations using alembic
- Rewrote legacy data aggregation platform from ruby to pyspark deployed on databricks; saved roughly 80% execution time

Data Engineer, SelectQuote, Kansas City, Missouri – 2019 Jan-June (Contract)

- Worked closely with data scientists to integrate predictive and optimization models into Flask web services to minimize spend on customer leads in real time
- Wrote python script that would periodically run a machine learning model and use the google AdWords REST API to programmatically adjust keyword allocation
- Increased uptime of core machine learning Flask web service from ~75% to ~98% by refactoring, adding celery, and increasing test coverage dramatically

Data Engineer, American Century Investments, Kansas City, Missouri – 2018-2019

 Wrote python script to query Salesforce objects and convert them to JSON format; empowered the Informatica ETL developers to ingest Salesforce data using schema on read to eliminate downtime of data pipeline due to sales team changes; saved company ~\$45,000 a year by eliminating need for Salesforce Informatica connector

- Wrote python CLI using click for automating a lot of repetitive tasks for informatica ETL developers
- Reduced critical stock rating process from ~two-day manual effort to a scheduled python script that ran in ~20 seconds
- Led effort to refactor legacy CRUD application to a flask admin + sqlalchemy app
- On call support of python and legacy java code base
- Replaced manual deployment processes using Jenkins
- Built companies first graph database in neo4j to help marketing identify potential new customers by relating accounts to custodians and secondary account owners

Business Intelligence Developer, Amsted Rail, Kansas City, Missouri – 2016-2018

- Built email scheduling web application using Flask and KendoUI to allow non licensed Tableau users to still receive emails of Tableau dashboards on a scheduled basis; saved ~\$50,000 due to reduced license needs
- Administered company's Tableau environment (Desktop, Server and Mobile)
- Python data pipelines for moving data from user defined SAP business objects reports into the data lake for consumption by data scientists
- Built out and maintained data warehouse for 5 manufacturing locations including all data marts and ETL processes.

Education University of Kansas – BSB Information Systems Technology, 2016

Skills python, flask, django, pyspark, databricks, git, circeci, kafka, sql, golang, postgresql, oracle, microsoft sql server, bash, celery, leadership, agile