Jack Werner

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SKILLS & TECHNOLOGIES

- Data Science
- Data Engineering
- Data Visualization

- Python
- Machine Learning
- Snowflake

- Spark
- AWS
- Git/Github

- SQL
- Terraform
- Typescript + React

WORK EXPERIENCE

Personal Development   June 2023 - Present
- Willingly left Ippon to travel and focus on building my web app, www.chordcraft.app, and learn more about Deep Learning.
- Built frontend of ChordCraft using Typescript with React to allow users to build chord progressions without knowing music theory or playing an instrument. Engineered REST API using AWS Lambda and API Gateway to enable users to export midi files of their songs.
- Bootstrapped ChordCraft to 200 monthly active users and 3,500 total users.

Ippon Technologies   September 2021 - June 2023
Data Engineer
- Worked with AWS Professional Services to develop PySpark library to enable migration of over 6,000 ETL pipelines from low code tool (SnapLogic) to AWS Glue across over 35 application teams for a Big 3 Management Consulting Firm.
- Built PySpark modules to integrate AWS Glue with client data sources that were not compatible out of the box. Wrote documentation, unit tests, and examples to ensure usability and maintainability of the library after engagement ended.
- Onboarded teams to AWS Glue, optimized their workflows, and set up their environment to use Terraform to automatically deploy necessary resources for developing and running Glue jobs that meet policy and security requirements.

Zayo Group   October 2020 - September 2021
Data Scientist
- Collaborated with other data scientists to develop a churn prediction model using Python and Sci-Kit Learn. Model correctly identified $2 million in churn over a 6 month testing period. Instructed sales teams on how to properly interpret predictions.
- Led team of interns and other data scientists in developing a model to predict customer spending to prioritize sales efforts. Model eliminated 30 man hours of work per week for the account creation process.
- Wrote and optimized SQL queries for building training and testing datasets for above models. Trained, tested and evaluated roughly 40 model configurations throughout development of both projects.

Zayo Group   June 2019 – October 2020
Data Analyst
- Analyzed customer buying patterns over 200 product combinations to find products that are frequently purchased together and potential upsell opportunities using apriori recommender system.
- Created complex data sets for dashboards and reporting using Salesforce CRM Analytics Dataflows to join, transform, and aggregate multiple data sources together for scheduled refreshing.
- Designed, built, and maintained a suite of dashboards for sales and marketing teams using CRM Analytics. Created visualizations for sales performance across verticals, success of onboarding accounts, and team case management.
- Automated workflows for building datasets from web scraping and calling APIs using Python.

EDUCATION

University of Colorado, Boulder   *Boulder, CO*
Bachelor of Arts in Mathematics
Majors: Mathematics – Minors: Computer Science, Business

AWARDS AND CERTIFICATIONS

AWS Certified Cloud Practitioner   September 2022
Snowflake SnowPro Core   June 2022