Matthew Schmoyer

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Experience

Media News Group

Lead Data Engineer - Spring 2017 to Present

- Designed and built a full ETL pipeline framework and data "lakehouse" using Airflow, with all core data stored external to a compute-optimized Redshift cluster
- Integrated 3rd-party data sources with SalesForce ordering to get full cost of goods sold reporting
- Worked close with several teams - including BI, data science, and internal application developers - to model and build intuitive and high performance data marts for the whole company

Quickdrop Media

Software Engineer - Winter 2020 to Summer 2021

- Deployed and managed a newsletter application that allowed authors to write, edit and schedule posts to be sent as email newsletters using a custom fork Ghost (open-source CMS)
- Added a custom integration with AWS SES to send emails, allowing our team to deliver up to 50k emails per month for no extra cost
- Built an analytics dashboard and a small ETL back-end using ClickHouse OLAP DB system

Red Spark

Software Engineer - Fall 2013 to Spring 2017

- Automation of 100+ weekly hours of analytical work using Python to scrape 500+ external sources with varying formats (CSV, JSON, XML, HTML, XLS) for business critical data in a light ETL process
- Development of analytical tools for an internal dashboard running PHP/Laravel, as well as pumping metrics with StatsD for real-time reporting
- Maintenance of several marketing sites built on Wordpress and fronted with Akamai CDN
- Contribution of reporting features for a Flask web application that allows advertisers to gain clear insight on campaign target performance

Defined Clarity

Web Application Developer (Internship) - Spring 2013 to Fall 2013

- Built new production features for a human resource web application with PHP, MySQL and a heavy JS/jQuery frontend
- Integrated with Monster.com's SOAP API to give users the ability to post to one of the most trafficked employment websites in the United States

Temple University

Teaching Assistant - Spring 2011 to Fall 2012

- Lead a lab for an undergraduate C Programming course with 20+ students for 2 semesters
- Helped show students good design patterns and debugging practices using Visual Studio

Education

Temple University

Graduated Spring 2013 - B.S. in Biology

Technical Skills

The following languages and tools are ones that I feel comfortable using both personally and professionally at an intermediate to advanced level.

Programming Languages

Language	Notes
Python	My language of choice for pretty much anything
SQL	ANSI compliant queries with MySQL, Postgres, etc.
Javascript	Some front-end development - I enjoy the Vue framework
Rust	Love/hate relationship with the borrow checker.
C#	Thanks Unity. Familiar with OOP concepts.

Data Engineering

Tool	Notes
Airflow	Preferred worflow manager - though I also enjoy Luigi
Apache Spark	Primarily via pySpark
Pandas	For quick data analysis
AWS Glue	To catalog external datasets and run pySpark jobs
Delta Lake	To handle concurrent reads + writes on parquet files
AWS Redshift	The primary commercial OLAP DBMS I work with

My Site