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# Dillon Stadther

## Senior Data Engineer

GitHub: dlstadther  
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### PROFESSIONAL EXPERIENCE

**Data Engineer**  
*Republic Wireless*

**Jun 2015 — Aug 2019**  
*Raleigh, NC*

Owner of internal data warehouse and associated ETL processes used by all departments to derive business insights.  
Report to Sr. Director of Software Development

#### Responsibilities

- Own, manage, and develop internal corporate AWS Redshift data warehouse structure, views, and associated Python ETL processes. Warehouse contains 50+ billion rows across 700 tables, processing 10k queries per day.
- Develop software and processes for internal data movement, manifesting as prototyped applications, ingress data pipelines, and egress data distribution.
- Implement data integrity processes through outlier detection for advanced warnings of ETL or data source corruption.
- Answer complex business questions by translating requirements into programmatic logic, through the development of tools, using Python and SQL.
- Manage AWS resource instantiation, configuration, security, and deployment.
- Administer internal data visualization platform, Periscope Data, and fulfill reporting requests.
- Mentor topics and best practices in data modeling, ETL, SQL querying, and Python development across the organization.

#### Key Projects

- (In Progress) Member Usage Metric Data Store Replacement - develop real-time member usage data ingestion, storage, retention, and access abstraction (API) to replace a legacy system and reduce its operational cost.
- Data Warehouse Consolidation and Transfer of Ownership - seamlessly consolidated and simplified Operations' data warehouses and ETL libraries into Engineering-managed and monitored ecosystem for improved accuracy, efficiency, and stability.
- Data Warehouse Ingestion Evolution - implemented structural consistency and dependency management through unification of custom ETL processes into Python, using Spotify's Luigi pipeline framework - led to role as Luigi Contributor and Maintainer.
- Prototype and Beta Test of SMS Chatbot Support Service - developed and evaluated SMS-based support chatbot to improve quality and speed of two-way support communications.

### PERSONAL EXPERIENCE

Extracurricular technical development indirectly related to employment responsibilities and skills.

#### Highlights

- Personal Operations Infrastructure Deployment and Management - utilized Terraform/Terragrunt and Kubernetes to deploy OpenProject project management software in popular clouds, AWS and GCP.
- Stateless Build Cluster Proof-of-Concept - experimented with Jenkins' Configuration as Code (JCasc) plugin to deploy a purely stateless Jenkins build cluster using Kubernetes.

### EDUCATION

**Bachelor of Science in Computer Science**, Gardner-Webb University, Boiling Springs, NC

2011 - 2015

### SKILLS

<b>Languages</b>	Python, SQL (Redshift, Postgres), Shell, Java, PHP
<b>Platforms &amp; Services</b>	GitHub, Jenkins, Jira, OpenProject, MacOS, Linux
<b>Tools</b>	Spotify/Luigi.git, Git, AWS, Ansible, Flask, GCP, Periscope Data, Kubernetes, Terraform

### INTERESTS (NON-TECHNICAL)

Disc Golf, Pickleball, Weight Training, Rubik's Cube, Sudoku, Carpentry