

Aaron R. Smith

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Skills

Languages	Scala, Python, SQL, Java, Bash, R, Raku, Perl, PHP
Big/Streaming Data	Kafka, Spark, Databricks, Kinesis, Hadoop, HBase, Zookeeper, Hive, Pig
Databases	Snowflake, Redshift, MySQL, PostgreSQL, DynamoDB
CI/CD	Azure Pipelines, GitHub Actions, Jenkins, Travis CI, Appveyor, CircleCI
Cloud Platforms	Amazon Web Services, Google Cloud Platform

Work Experience

IronNet Cybersecurity

Apr. 2021 - Present

SENIOR DATA ENGINEER

IronNet is the leader in collective defense, allowing companies to share data about potential breaches and keep entire industries secure. Recent contributions include:

- Refactoring the legacy analytics infrastructure to be more reliable and scalable (Scala, Spark)
- Migrating the legacy infrastructure to a multi-tenant stream-based architecture, leading to better scalability, quicker onboarding, and faster threat detection (Scala, Kafka)

Sumo Logic

Mar. 2020 - Apr. 2021

DATA ENGINEER II

- Part of team that developed a SQL-based rules engine to process data in real-time, allowing users to write custom queries to alert them about potential security threats (Scala, Kafka, ANTLR)
- Implemented a modified Rete Algorithm in the above rules engine to allow users to chain aggregations together without performance decrease (Scala, Kafka Streams)
- Developed a service to translate SQL-based rules into Sumo Logic's query language as part of the integration of Jask and Sumo Logic (Scala, Akka)

Talroo

Apr. 2018 - Mar. 2020

DATA ENGINEER

Nov. 2018 - Mar. 2020

- Designed and built Talroo's first data warehouse and wrote data pipelines to populate it (Python, Kinesis, Spark, Snowflake)
- Helped create Talroo Insights™, an award-winning business intelligence product, as the sole data engineer on the team in charge of the project (Python, Snowflake, SQL, R)
- Migrated batch ETL processes to streaming (Python, Kinesis, Spark)

ASSOCIATE DATA ENGINEER

Apr. 2018 - Nov. 2018

- Part of a small team tasked with re-writing Talroo's platform to increase performance at scale (Java, DynamoDB, Kinesis, PostgreSQL)
- Developed automation scripts to eliminate downtime when altering legacy tables that require table-level locking (Python, MySQL)
- Wrote and maintained integration pipelines between Talroo's data layer and third-party services such as Salesforce (Scala, Spark, MySQL)

Projects

PMDARIMA

Active contributor to Pmdarima, "a statistical library designed to fill the void in Python's time series analysis capabilities, including the equivalent of R's auto.arima function." Notable contributions include:

- Adding Python 3.7+ support
- Developing and maintaining the project's CI/CD pipelines across GitHub Actions and CircleCI

Education

Johns Hopkins University

Dec. 2017

M.S. IN BIOINFORMATICS

Texas A&M University

Dec. 2015

B.S. IN BIOCHEMISTRY AND GENETICS