

# Aaron R. Smith

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## Skills

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<b>Languages</b>	Scala, Python, Go, Rust, SQL, Java, Bash, R, Raku, Perl, PHP
<b>Big/Streaming Data</b>	Kafka, Spark, Databricks, Kinesis, Hadoop, HBase, Zookeeper, Hive, Pig
<b>Databases</b>	Snowflake, Redshift, MySQL, PostgreSQL, DynamoDB
<b>CI/CD</b>	Azure Pipelines, GitHub Actions, Jenkins, Travis CI, Appveyor, CircleCI
<b>Cloud Platforms</b>	Amazon Web Services, Google Cloud Platform
<b>Infrastructure/Deployment</b>	Docker, Kubernetes, Nomad, Spinnaker, Terraform, CloudFormation

## Work Experience

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### Sevco Security

Sep. 2022 - Present

#### SENIOR SOFTWARE ENGINEER, TEAM LEAD

Sevco is the leading provider of real-time asset inventory for security and IT teams. Recent contributions to the product include:

- Brainstorming and prototyping the addition of a "user" asset type to expand Sevco's product offering and increase customer's attack vector coverage
- Engaging with customers and practitioners to understand pain points and improve Sevco's product
- Developing integrations to ingest customer data from sources such as AWS, Okta, and Slack (Go, Rust)

### JumpCloud

Nov. 2021 - Sep. 2022

#### SENIOR DATA ENGINEER

- Designed and built a stream-based data platform to make data more accessible and relieve stress on production systems (Kafka, Debezium, ksqldb)
- Consolidated workloads to the new architecture leading to faster pipeline provisioning, higher throughput, and significant cost savings (Kafka, Kinesis, Lambda, Snowflake)
- Designed education materials to help engineers ramp up on Kafka at JumpCloud

### IronNet Cybersecurity

Apr. 2021 - Nov. 2021

#### SENIOR DATA ENGINEER

- Refactored the legacy analytics infrastructure to be more reliable and scalable (Scala, Spark)
- Migrated 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)
- Implementing the concept of "custom look-up tables" to allow users to enrich their own records on the way into our system (Scala, Avro, Kafka, RocksDB)
- 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

- 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)

## Education

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### Johns Hopkins University

Dec. 2017

M.S. IN BIOINFORMATICS

### Texas A&M University

Dec. 2015

B.S. IN BIOCHEMISTRY AND GENETICS