Scott A Lyons

Software Engineer 2 / OSS Data Engineer
Redmond, Washington

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EXPERIENCE

- **Microsoft** - **Consumer Software Engineering (CSE)**   Redmond, Washington
  Software Engineer 2   *September 2018 - Present*
    - Member of the Data Tech Domain team
    - Responsible for educating customers and field-oriented developers on industry trends related to Big Data.
    - Collected feedback from field teams, triaged it and reported it back to Product groups
    - Worked closely as part of the Azure Databricks feedback loop to expedite customer issues
    - Converted R scripts to SparkR and encapsulated them for execution through Azure Data Factory (H&M)
    - Consulted on best practices for building and deploying ML models for fastest response time scenarios (Energinet)
    - Consulted on best practices for handling encrypted files in a Big Data pipeline (Walgreens)
    - Consulted on best practices for distributed event handling through Event Grid (AT&T)
    - Served as an emergency consult on scripting and validating HDInsight cluster deployments (Credit Suisse)
    - Helped port Feast(https://github.com/feast-dev/feast) to run on Azure Databricks
    - Did design reviews for large-scale warehousing scenarios (Kroger)
    - Worked on the team to build the infrastructure automation for the CSE Kafka on-boarding event
    - Wrote benchmarking tools to test CosmosDB's Cassandra offering

  Technologies: Python, Azure Databricks, Scala, Spark, Terraform, Docker, Cassandra, Kubernetes, Azure Data Factory, EventHubs, Kafka, Azure Data Lake, Azure HDInsight, Azure CosmosDB

- **Microsoft** - **Customer Advisory Team (CAT/DataCAT)**   Redmond, Washington
  Software Engineer 2   *September 2015 - August 2018*
    - Worked as an OSS Data specialist
    - Worked with customers to unblock technical issues, provide best practices
    - Did design reviews with customers to provide optimal performance for a variety of ETL/OLTP scenarios
    - Helped plan and automate data gathering for internal project that lead to key design decisions in ADLS Gen 2
    - Worked closely with customer in an adjunct Data Engineer role to bootstrap their data processing pipelines
    - Worked closely with EventHubs product group to rewrite Spark drivers for best performance and developer experience

  Technologies: Python, Scala, Azure Databricks, Hadoop, Yarn, Azure HDInsight, Azure CosmosDB, Kubernetes, EventHubs, Airflow, MongoDB.

- **Microsoft** - **Compute Insights Team**   Redmond, Washington
  Software Engineer   *March 2014 - September 2015*
    - Built tools to manager and observe Data Science jobs running in COSMOS
    - Built data visualization tools based on insights from low-level hardware metrics
    - Wrote introductory courses on OSS Big Data concepts, notebooks and Hadoop for my team

  Technologies: Python, Scala, F#, C#, COSMOS, Hadoop, HDInsight, D3.

Technical skills

- **Programming languages:** Python, Scala, F#/.NET, JavaScript/Node

- **Cloud services:** Azure, GCP

- **Scripting/Infrastructure:** Terraform, Docker, Kubernetes, Bash, Powershell, Bicep

- **Currently learning:** Tensorflow, xgboost, Golang, Typescript

Education

- **Carleton University**   Ottawa, Ontario, Canada
  B.Sc in Computer Science   *September 2009 - February 2014*
    - Served as head of Services for the Computer Science Society
    - Deployed OpenStack for students to try out cloud computing
    - Worked as a software contractor part-time