Kyle Goodale

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SUMMARY

Senior Software Engineer specializing in high-performance data streaming, distributed computing, and language parsing. Enjoys solving complex problems and learning new technologies. Functional programming enthusiast. Experienced in running large-scale reliable data processing platforms, microservice development, and machine learning operations (MLOps).

EXPERIENCE

Senior Software Engineer, F5   October 2021 - Present
- Created a new generic query language for executing queries across a multitude of database technologies, including Elastic Search, Parquet Data in S3 via Spark, and Kafka Streaming evaluation against Avro Data.
- Created a platform for containerizing and deploying any machine learning model.
- Created a platform to enable internal Subject Matter Experts (SME's) to train their own Large Language Models (LLMs) with minimal data science skills required.
- Led a complex project rewriting one of the oldest parts of our platform while ensuring no interruption to the existing feature.
- Gained experience as a team lead architecting, coordinating, and communicating feature development across teams.
- Skills Used: Scala, Python, Akka Streams, MLFlow, Kubernetes, Functional Programming, SQL, Postgres, Spark

Software Engineer, Threat Stack   July 2019 - October 2021
- Developed highly available microservices for various projects. Leveraging functional programming heavily.
- Developed and maintained a streaming query language for classifying and filtering millions of events per second.
- Developed and maintained various high-performance streaming applications capable of processing millions of events per second.
- Developed and maintained a large data platform storing hundreds of terabytes of data.
- Optimized existing streaming services to cut operating costs by over half.
- Received numerous awards for performance.
- Developed tools for identifying performance bottlenecks and application failures.
- Skills Used: Scala, Akka Streams, Functional Programming, Finch/Finagle (Twitter Stack), SQL, Parquet, Postgres, Elastic Search, Kafka, Parquet, Hive, Spark

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SKILLS

Languages:
- Scala *(Expert)*
- Java *(Advanced)*
- Python *(Intermediate)*
- Kotlin *(Intermediate)*
- JavaScript *(Beginner)*
- Go *(Beginner)*

Technologies:
- Data Streaming *(Expert)*
- Akka Streams *(Expert)*
- Data Platform Development *(Advanced)*
- Kubernetes *(Advanced)*
- SQL *(Advanced)*
- Postgres *(Advanced)*
- Kafka *(Advanced)*
- ML Ops *(Advanced)*
- MLFlow *(Advanced)*
- Functional Programming *(Advanced)*
- ElasticSearch *(Advanced)*
- Amazon Web Services (AWS) *(Intermediate)*

EDUCATION

B.S, Computer Science
University of Maine