

Kevin G. McQuate - Big Data/Software Engineer

kgmcquate@gmail.com | 330-573-9965 | home.kevin-mcquate.net

WORK EXPERIENCE

Senior Big Data Engineer - Bluestem Brands, Inc., Eden Prairie, MN

April 2021 - Present

- Building, testing, supporting, and migrating big data pipelines

Projects:

- FedEx Tracking API integration with Spark RDD API
- Credit Scoring ML models in SparkR/PySpark
- Custom Spark AWS Credentials Provider
- Kinesis streaming pipeline for Customer Support phone data
- On-prem Hadoop to AWS EMR migration
- Data topics: Marketing, Supply Chain, Customer Credit, Customer Support, Merchandise, ...
- Data sources: Kafka, Kinesis, SQL Databases, REST APIs, Parquet, Delta tables, CSV, JSON, CDC

Tools: Spark, Python, Scala, Java, RedShift, Lambda, EC2, IAM, Kinesis, MS SQL, Kafka, ActiveBatch

Platforms: AWS, EMR, Databricks

- Building and maintaining CI/CD pipelines for the Big Data team

Tools: Git, Docker, CloudFormation, Terraform, PyPI, Maven, Bash, Unit Testing, AWS ECR, Python/Java build tools

Platforms: GitLab, Azure DevOps

- Building developer tooling and setting up big data platforms

Tools: Python, Typer, Java, Scala, boto3/AWS SDK, IAM, dbx

Platforms: EMR, EMR Serverless, Databricks

Data Engineer - Knolls Atomic Power Laboratory, Niskayuna, NY

July 2019 - April 2021

- Built big data pipelines for scientific data for the US Navy

Tools: Spark, Impala, Hive, SQL, Hadoop, Scala, Python, Apache Airflow

- Web UIs for data manipulation and access with Django and Docker

Tools: Javascript/HTML/CSS, Python, Django, Docker Compose

Electromechanical Engineer/Technician - Elkins Earthworks, Medina, OH

August 2018 - June 2019

- Bluetooth thermometer design: mechanical design, circuit board layout, testing, repair and assembly

EDUCATION

B.S. in Nuclear Engineering, The Pennsylvania State University, University Park, PA

PERSONAL PROJECTS

Lake Ice Map React App - Displays an interactive map of lake ice thickness predictions

Link: lake-freeze.kevin-mcquate.net

API: lake-freeze-api.kevin-mcquate.net/docs

ETL: github.com/kgmcquate/weather-etl

Frontend: github.com/kgmcquate/lake-freeze-frontend

Backend: github.com/kgmcquate/lake-freeze-backend

Infrastructure: github.com/kgmcquate/infra

Technologies: FastAPI, React, PySpark, EMR Serverless, GitHub Actions, AWS SAM/CloudFormation, CloudFront, Terraform, Grafana, Lambda, Python, Docker, RDS, Postgres

Data Science Projects - Short data science projects for EdX Data Science course

Links: home.kevin-mcquate.net/solar-panel-data.html, home.kevin-mcquate.net/nuclear-plants.html

Technologies: Pandas, Jupyter, Plotly, Matplotlib

Nuclear Reactor Simulator Webapp (Inactive) - Interactive 2D nuclear reactor core builder and solver

Technologies: django, django templates, gmsh, bash, Docker