

# Kevin G. McQuate

## Big Data/Software Engineer

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### WORK EXPERIENCE

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

April 2021 - Present

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

Projects:

- On-prem Hadoop to AWS EMR migration
- FedEx Tracking API integration
- Credit Scoring ML models in SparkR/PySpark
- Custom Spark AWS Credentials Provider
- Kinesis streaming pipeline for Customer Support phone data
- Data topics: Marketing, Supply Chain, Customer Credit, Customer Support
- 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, AWS ECR, Python/Java build tools

Platforms: GitLab, Azure DevOps

- Building big data tooling and setting up big data platforms

Tools: Python, Typer, boto3, IAM,

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

Technologies: React, GitHub Actions, AWS SAM/CloudFormation, CloudFront, Terraform, Lambda, Python, RDS, Postgres

Link: [lake-freeze.kevin-mcquate.net](http://lake-freeze.kevin-mcquate.net)

Code: [github.com/kgmcquate/lake-freeze-frontend](https://github.com/kgmcquate/lake-freeze-frontend), [github.com/kgmcquate/lake-freeze-backend](https://github.com/kgmcquate/lake-freeze-backend)

API: [lake-freeze-api.kevin-mcquate.net/docs](http://lake-freeze-api.kevin-mcquate.net/docs)

Infrastructure: [github.com/kgmcquate/infra](https://github.com/kgmcquate/infra)

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

Links: [home.kevin-mcquate.net/solar-panel-data.html](http://home.kevin-mcquate.net/solar-panel-data.html), [home.kevin-mcquate.net/nuclear-plants.html](http://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