

MICHAEL QUINN

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SKILLS

- Python | SQL | Terraform | PySpark | Git | Docker | JavaScript | TypeScript | Bash | React | Elastic
- ETL | Data Modeling | Normalization | Data Warehousing | Cloud Computing | Agile | CI/CD
- AWS | S3 | Glue | Lambda | EC2 | Athena | Step Functions | DynamoDB | CloudWatch | IAM

EXPERIENCE

CGI Federal

Sep. 2020 – Present

Data Engineer

- Engineer a comprehensive data pipeline solution in AWS that serves as the backbone of a cybersecurity assessment tool for 70+ federal agencies.
- Develop Python scripts with PySpark to extract and process various data from 100,000+ government assets and 6 different SaaS tools per day.
- Orchestrate ETL workflows involving data lakes, S3, Python, SQL, AWS Glue, Iceberg tables, AWS Step Functions, Lambda, Athena, Docker, and more to handle 300+ GB of data per day.
- Devise SQL queries to perform data analysis, discover optimizations, and ensure data integrity.
- Work cross-functionally with other teams and stakeholders to answer questions with data, uncover pipeline issues, validate testing, define business objectives, create user stories, and maintain documentation.
- Architect and manage data pipeline infrastructure using Terraform.
- Collaborate on a SQL-backed client application to perform backend database operations.
- Contribute to and manage 35+ repositories and pipelines using Git and the AWS code suite for CI/CD.

CGI Federal

Jun. 2019 – Aug. 2019

Business Analyst Intern

- Utilized Microsoft Power BI to map and visualize data in a hierarchical structure.
- Facilitated Agile team meetings and helped define user stories and objectives.

Pennsylvania Multifamily Asset Managers

Jun. 2018 – Aug. 2018

Full-Stack Developer Intern

- Created an internal web application using MSSQL, C#, JavaScript, HTML, and CSS in an MVC framework for a government housing consulting company to process and store thousands of government documents.

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner
- Certificate in Business Fundamentals (UVA McIntire Business Institute)

EDUCATION

University of Virginia

May 2020

B.S., Systems Engineering

Charlottesville, VA

- Graduated with distinction from the School of Engineering and Applied Science.
- Wrote a thesis (“Big Data and its Implications for Privacy”) discussing various media platforms and their use of data, such as Spotify and its data analysis technologies for catering to its user base.
- Re-founding father of the Sigma Nu fraternity (Beta chapter).