MICHAEL QUINN

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SKILLS

- Python | SQL | PySpark | Git | Terraform | Linux | Docker | Typescript | React | Elastic
- ETL | Data Modeling | Normalization | Data Warehousing | Cloud Computing | Agile
- AWS | S3 | EC2 | Glue | Athena | Step Functions | DynamoDB | CloudWatch | Lambda

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.
- Orchestrate several ETL processes using Python, PySpark, S3, AWS Step Functions, Glue, Athena, Docker, DynamoDB, Iceberg, and more to handle 300+ GB of data per day.
- Devise SQL queries to perform data analysis to debug incidents and optimize performance.
- Improve major pipeline bottlenecks by developing Python scripts that hit SaaS APIs directly to ingest 100,000+ government assets per day.
- Collaborate on a SQL-backed client application to perform backend database operations.
- Develop 20+ data normalization scripts to process data from 6 different SaaS tools using Python and PySpark.
- Architect and manage data pipeline infrastructure using Terraform.
- Use Git to help contribute to and manage 35+ CI/CD pipelines and repositories using AWS code suite.
- Work cross-functionally with stakeholders and other teams in an Agile format to develop business objectives, track incidents, define product requirements, create user stories, and maintain project documentation.

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.
- Developed a high-level supply chain management solution as a capstone project with a team of interns to be presented to and judged by a panel of senior leaders.

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).