

# Sarah K. Moreland

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## EXPERIENCE

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**SLALOM CONSULTING** | Boston, MA

June 2022 – Present

*Associate Consultant*

### Cloud Residency Training Program

June 2022 – October 2022

- Completed a rigorous training program and curriculum focused on AWS cloud infrastructure
- Designed cloud architecture to support full-stack server-based and serverless applications
- Deployed CI/CD pipelines composed of AWS services using infrastructure-as-code tooling

### Large Scale Gaming Company

December 2022 – Present

- Led the migration of entire gaming ecosystems including servers and databases to AWS cloud infrastructure
- Collaborated with the client to support them in configuring and deploying esports gaming servers
- Utilized a Kanban workflow to efficiently manage and troubleshoot tasks

**FEDERAL RESERVE BOARD OF GOVERNORS** | Washington, D.C.

June – August 2021

*Software Engineering Intern*

- Partnered with other interns on a text summarization project to implement and test multiple extractive methods
- Coded SQL scripts for a database support systems team while working in an Agile work environment
- Programmed an API in C# to insert users and their permission information into a database table

## TECHNICAL SKILLS

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**LANGUAGES:** C/C++, Java, Python, SQL, JavaScript, Go

**APPLICATIONS:** XCode, Visual Studio/VS Code, Eclipse, Git, React, Jenkins, Terraform

## CERTIFICATIONS AND AWARDS

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### AMAZON WEB SERVICES (AWS)

- Certified SysOps Administrator – Associate
- Certified Developer – Associate
- Certified Solutions Architect – Associate
- Cloud Practitioner

### SLALOM CONSULTING

- Slalom's Global Data & Technology Market Choice Mogul Award

## PROJECTS

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**SOCIAL MEDIA SITE – AWS, TERRAFORM, JAVASCRIPT** | Slalom Cloud Residency

August 2022

- Architected and provisioned AWS cloud infrastructure to support a CI/CD pipeline hosted on Jenkins
- Designed a social media website hosted on AWS that allows users to share photos and customize their profiles
- Utilized Hashicorp's Terraform to deploy serverless infrastructure

**INVENTORY SITE – AWS, JAVASCRIPT** | Slalom Cloud Residency

July 2022

- Built out a VPC, public and private subnets, and EC2 instances using Elastic Beanstalk
- Designed and integrated a full-stack application so the inventory site could query a PostgreSQL database
- Deployed an autoscaling application load balancer to efficiently distribute traffic to the site

**SEARCH ENGINE – PYTHON** | Information Retrieval course

September – December 2021

- Designed pre-processing methods to analyze documents and produce single, stem, positional, and phrase indexes
- Implemented BM25, cosine vector space model, and Dirichlet Smoothing to perform query processing
- Improved query results using partial processing and query expansion via pseudo relevance feedback

**SENTENCE EMBEDDING, K-MEANS CLUSTERING – PYTHON** | Federal Reserve Board Internship

June 2021

- Transformed an existing sentence embedding algorithm to use as an extractive text summarization method
- Deployed nltk.cluster to apply k-means clustering on embeddings produced from pre-trained embedding models
- Tested and evaluated the power of a mainstream GPU and 8-core CPU concerning embedding time performance

## EDUCATION

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**GEORGETOWN UNIVERSITY** | Washington, D.C.

August 2018 – May 2022

*Bachelor of Science in Computer Science, Minor in Mathematics / GPA: 3.79/4.0*