Camille Kirongozi

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◦ Python ◦ OOP ◦ Data Analysis ◦ Git ◦ SQL Development ◦ AWS

HIGHLIGHTS

Summary

MS Computer Science student and Data Analyst with strong Python development experience and expertise in databases, automation, and software engineering. Specializing in building automated testing frameworks and validation tools. Passionate about developing technical solutions that ensure data integrity, improve operational efficiency, and support compliance requirements.

Certificates
- ◦ AWS Cloud Practitioner
- ◦ SAS Certified Specialist: Base Programming Using SAS 9.4

Proficient in

Snowflake, Python, C++, Java, C, Jira, PostgreSQL, NoSQL, Tableau Desktop, Docker, Team Collaboration, Client Collaboration, Scrum, Agile, Presentations, Serialization Formats

RELEVANT EXPERIENCE

Professional Projects | *Arkatechture*

Snowflake View Testing Framework | Python
- Developing an automated testing framework for SQL view objects to ensure views follow best practices and maintain data integrity
- Implemented CI/CD integration for continuous validation of database operations
- Significantly reduced manual testing time while improving code quality

Database Scanning Application | Python
- Created database scanning application to identify Primary Account Numbers (PAN)
- Implemented robust pattern matching algorithms
- Automated reporting for compliance requirements

Container Enhancements | Python
- Updated critical audit container using Docker
- Implemented modular design for improved maintainability and extensibility
- Improved audit accuracy through specialized validation rules

Automated View DDL Remediation | Python
- Developed an automated solution to remediate SQL view objects
- Integrated Bitbucket OAuth API to enable automated PR creation
- Integrated alerting system for real-time notifications

Academic Projects | *Northeastern Roux Institute*

Automated SQL View DDL Error Detection | Python
- Created tool to analyze SQL view definitions against standard data model rules
- Implemented error detection algorithms to identify inconsistencies and potential issues

Advanced Data Structures Implementation | C
- Implemented and optimized various data structures including linked lists, stacks, queues
- Developed binary search trees and graph data structures and implemented Dijkstra's algorithm for shortest path calculations

Maze Game using Graph Data Structure | Java
- Designed pathfinding algorithms using graph traversal techniques
- Created efficient data representation for complex maze environments
- Applied object-oriented design principles to create distinct specialized classes with clear separation of concerns

Ice Cream Shop Simulator Using Classes and Objects | Python
- Designed and implemented a comprehensive object-oriented system to model a commercial business
- Developed modular code structure allowing for easy expansion and modification

WORK EXPERIENCE

Arkatechture, Portland ME   *2022-Present*

Data Analyst
- Implemented a data archival strategy to reduce compute costs
- Design and implement data models using SQL to support business operations
- Conduct code review
- Work collaboratively with stakeholders and engineers to collaborate on optimization efforts

Tyler Technologies, Yarmouth, ME   *2021–2022*

Associate Software Support Specialist
- Regularly rectified client database errors using SQL
- Collaborated with managers and developers to track bugs and manage projects
- Assisted clients with software issues and file formatting for third party software uploads
- Led presentations to educate clients on crucial functionalities of the software

EDUCATION

M.S. Computer Science   *2024-Present*

Northeastern University Roux Institute
- Relevant Coursework: Algorithms, Data Structures, Object-Oriented Design, Discrete Structures
- Additional Training: MIT 6.S081 Operating System Engineering (Ongoing)

M.S. Data Analytics   *2020-2022*

Western Governors University
 – Capstone: Analyzing Inflation Crisis In African Countries:
    https://github.com/Camillekiro/Inflation-Crisis-in-African-Countries

B.A. Economics   *2015-2019*

University of New Hampshire
 – Awards: Dean's List
 – 2019 Leadership Camp Graduate