# Londell McGlone

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## TECHNICAL SKILLS

- **Database / Server:** MS Access, SQL Server, Azure SQL Database, MySQL
- **Programming Languages:** Python, SAS, SQL, C#, VBA, Spark, XML, HTML, PHP
- **Data Science & Machine Learning:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly, BeautifulSoup, Apache Spark, OpenAI
- **BI, Data Visualization & Analysis:** Power BI (DAX), ArcGIS, Plotly, Matplotlib, Seaborn, MS Excel, SAS
- **Other Software / Tools:** MS Office, SharePoint, MS 365, PowerApps, Power Automate, Visio, Visual Studio, SQL Server Management Studio, Microsoft Azure, DataBricks, Google Colab, VS Code, PyCharm, OpenAI, Adobe Creative Suite

Areas of Expertise:

- **Data Science & Analytics:** Quantitative Analysis, Predictive Modeling, Data Mining, Statistical Analysis & Programming, Data-Driven Decision Making, Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP), Time Series Forecasting, Deep Learning, Model Evaluation & Optimization, Feature Engineering, Experiment Design (A/B Testing)
- **Data Engineering:** Data Integration, Data Preparation, Data Cleaning, ETL (Extract, Transform, Load), Data Pipeline Management, Big Data Processing, Cloud Data Services
- **Data Management & Governance:** Data Modeling, Data Warehousing, Data Quality Management, Metadata Management, Data Lifecycle Management, Master Data Management (MDM), Relational & NoSQL Databases
- **Data Visualization & Reporting:** Interactive Dashboards, Business Intelligence Tools, Visual Analytics, Reporting Automation, Geospatial Visualization (ArcGIS), Advanced Charting (Plotly, Seaborn, Matplotlib), Storytelling with Data, Executive Reporting
- **Leadership & Collaboration:** Strategic Leadership, Team Management, Cross-Functional Collaboration, Project Management, Stakeholder Engagement, Technical Mentorship & Training, Change Management, Vendor & Client Relations

## PROFESSIONAL EXPERIENCE

### DATA SCIENTIST | BCS ALLEGIENT / DEPARTMENT OF ENERGY (DOE)

*October 2023 – Present | Remote (Washington, D.C.)*

- Developed algorithms in DataBricks to automate and streamline the monitoring of DOE investment reputation, enhancing data accuracy. Utilized SQL, AI and NLP techniques to analyze thousands of web-scraped entries from Google Alerts weekly, reducing manual processing time by 50% and delivering actionable insights that drove key strategic decisions.
- Pioneered and deployed automated reporting systems for investment projects, boosting reporting efficiency by and improving clarity in deliverables, which reduced reporting errors and provided real-time insights that facilitated better decision-making across a multimillion-dollar portfolio.
- Leveraged ArcGIS for advanced mapping and spatial analysis, providing critical insights into current and potential company investments. This analysis influenced business decisions that optimized investment strategies and aided in the identification of new investment opportunities.

### DATA SCIENTIST TEAM LEAD | CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)

*April 2022 – October 2023 | Atlanta, GA*

- Led the creation and strategic alignment of a data management team within the branch, ensuring talent, planning, and goal setting were directly in line with CDC objectives. Led, mentored, and managed the multidisciplinary team of high-performing professionals, including Data Managers, Health Scientists, Epidemiologists, and IT Specialists, resulting in an improvement in overdose surveillance efficiency and the successful completion of key projects ahead of schedule, impacting national public health decisions and outcomes.
- Pioneered the modernization of nationally recognized surveillance projects by implementing cloud-based computing solutions and optimizing workflows with Python utilizing MS Azure and Databricks. This innovation reduced data processing time by 66%, and enabled the timely delivery of critical insights, significantly enhancing the project's impact on national health surveillance decisions and efforts.
- Transformed ETL data management systems for both large and small-scale projects within the branch, utilizing national data to develop innovative tools and produce impactful visualizations and analyses. These enhancements improved data accessibility, reduced analysis time by 25-50%, and directly supported informed decision-making, leading to effective public health interventions.
- Led the end-to-end development of a dynamic Power BI employee survey dashboard, integrating data from Excel to automate trend analysis and category-based comparisons. Designed interactive visualizations with advanced DAX measures and drill-through features to present key metrics such as top responses, averages, and percentage distributions, significantly improving the speed and clarity of internal data review.

DATA SCIENTIST | 2M RESEARCH SERVICES / CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)
*October 2017 – April 2022 | Atlanta, GA*

- Utilized advanced SQL, SAS, Python, and cloud computing techniques to perform comprehensive data analysis, mining, and manipulation, resulting in a 50-70% reduction in data processing time. This improvement increased project delivery speed and enabled faster, data-driven decision-making that directly contributed to achieving key branch goals.
- Collaborated with researchers on data interpretation and validation, significantly contributing to the production of high-visibility reports and presentations. Developed powerful DAX calculations, data mining and reviewing tools in Power BI, reducing review time by 20-40% and enhancing the accuracy and clarity of data insights, which elevated the quality of deliverables presented to leadership.
- Drove an increase in efficiency and a boost in data accuracy by managing complex ETL pipelines from diverse data sources. Engineered advanced statistical analysis and data mining programs to process large U.S. datasets within a centralized system, resulting in faster data processing times and more reliable insights that informed national-level policy decisions.
- Managed and continuously enhanced a real-time Power BI dashboard for monitoring overdose data trends, overseeing updates to SAS-driven automation for rolling averages and refining comparative analyses across state and national datasets. Led iterative improvements to dynamic visualizations based on stakeholder feedback and evolving data requirements, ensuring the tool remained relevant, insightful, and aligned with public health decision-making priorities.

DATA ANALYST III | TEKSYSTEMS / CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)
*April 2017 – October 2017 | Atlanta, GA*

- Directed and streamlined critical data processes and analysis, cutting data processing time by 50% while maintaining high data quality. Provided expert guidance in database development and ETL processes for data from CDC-funded sites, ensuring the timely dissemination of research outputs that influenced public health strategies and policy decisions.
- Developed and implemented SOPs for robust data management of surveillance data, creating a solid framework for data processing, management, and analysis. This initiative led to an increase in data management efficiency, ensuring consistency, reliability, and faster turnaround times, which improved the overall effectiveness of surveillance activities.

### CLINICAL DATA MANAGER | AVIRAGEN THERAPEUTICS

*September 2016 – April 2017 | Alpharetta, GA*

- Facilitated vendors in preparing regulatory submissions by expertly managing data entry, analysis, collection, and transfer, including SDTM data mapping specifications, data conversion plans, datasets, SOPs, and submission packages. Ensured FDA compliance, reducing submission errors by 30% and accelerating approval timelines by 20%, thereby enhancing the overall efficiency of the regulatory process.
- Orchestrated seamless collaboration with clinical trial CRO and external vendors, leveraging CDISC and ADaM standards to optimize data flow and integrity. This effort led to an improvement in data flow efficiency and data integrity, ensuring high-quality data management and timely project milestones, which directly contributed to successful clinical trial outcomes.
- Utilized MS Access, SAS and MS Excel to develop and manage programming tools, generate detailed reports, and conduct external data analyses, resulting in an increase in reporting accuracy and a 20% reduction in analysis time. These tools enhanced decision-making processes and supported more efficient project management.

### SENIOR DATA MANAGER | P3S CORPORATION / CENTERS FOR DISEASE CONTROL AND PREVENTION (CDC)

*April 2010 – September 2016 | Atlanta, GA*

- Developed and maintained SQL and MS Access databases, expertly managing 10,000+ clinical records across state health departments. Spearheaded data management processes, integrating a cutting-edge application using C#, SQL, and MS Access to enhance data accessibility and streamline operations.
- Masterminded and maintained SQL databases, managing over 75,000 clinical records for CDC labs while managing data integrity. Developed complex SAS programs to seamlessly migrate, concatenate, and authenticate 5,000+ monthly patient records, ensuring accurate data flow. Analyzed and disseminated datasets, driving critical decisions in respiratory and vaccine-preventable disease surveillance projects.
- Presented key study data and IT insights at high-profile meetings, including CDC conferences and Annual State Surveillance Officer Meetings. Provided expert data science support and consultation to state health IT departments, ensuring successful SQL database deployment and seamless data management across multiple regions.

## PUBLICATIONS

- Abeed Sarker, Mohammed Ali Al-Garadi, Yao Ge, Nisha Nataraj, Londell McGlone, Christopher M Jones, Steven A Sumner (2022). Evidence of the emergence of illicit benzodiazepines from online drug forums.
- Stephen Liu, PhD; Julie O'Donnell, PhD; R. Matt Gladden, PhD; Londell McGlone, MPH; Farnaz Chowdhury (2021). Trends in Nonfatal and Fatal Overdoses Involving Benzodiazepines - 38 States and the District of Columbia, 2019–2020.
- Vivolo-Kantor A, Pasalic E, Liu S, Martinez PD, Gladden M, Overdose Morbidity Team (2021). Defining indicators for drug overdose emergency department visits and hospitalizations in ICD-10-CM coded discharge data.
- Loren Rodgers et al. (2013), Epidemiologic and laboratory features of a large outbreak of pertussis-like illnesses associated with cocirculating Bordetella holmesii and Bordetella pertussis--Ohio, 2010-2011

## DASHBOARDS

- DOSE-SYS Dashboard: Nonfatal Overdose Syndromic Surveillance Data
- DOSE-DIS Dashboard: Nonfatal Overdose Emergency Department and Inpatient Hospitalization Discharge Data
- SUDORS Dashboard: Fatal Drug Overdose Data

## PROFESSIONAL DEVELOPMENT

- Massachusetts Institute of Technology - Applied Data Science Certificate 2025
- DataBricks Data + AI Summit 2023 - Apache Spark Training
- Leadership Coaching - Continuum Services LLC  2022 - 2023
- CDC Supervisor Development Challenge Series - 2022

## EDUCATION

MASTER OF PUBLIC HEALTH | MERCER UNIVERSITY SCHOOL OF MEDICINE

BACHELOR OF SCIENCE | GEORGIA SOUTHERN UNIVERSITY