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| **Wesley Lau**  Data Analyst  **PROFESSIONAL EXPERIENCE**  **National Cancer Institute**  Dec 2022 – Jan 2024  Data EngineerBethesda, MD   * Led the integration of MongoDB and PostgreSQL datasets into Neo4j, transforming relational and document-based data into graph structures to enable advanced network analysis and visualization. * Developed custom Cypher queries to map relationships and nodes within Neo4j, unlocking new insights from previously siloed data sources. * Optimized the Python data loader system by implementing multithreading and data caching techniques, increasing data loading speed and efficiency. * Transformed graph data into actionable insights by leveraging Tableau’s advanced visualization features (filters, calculated fields, parameters) to represent node relationships and network patterns.   **DHS HQ**  May 2021 – Jun 2022  Data AnalystArlington, VA   * Utilized Oracle Enterprise Manager (OEM) to monitor performance metrics and implemented resource optimization strategies, decreasing CPU usage by 25%. * Diagnosed and resolved database performance bottlenecks using AWR reports and SQL Tuning Advisor, reducing system downtime and increasing overall efficiency by 35%. * Built custom, enterprise level data visualization dashboard to enable data exploration by data architect for designing centralize data repository. * Reduced average query response time by 40% through SQL query analysis and restructuring, leveraging advanced indexing strategies and execution plan tuning.   **DHS FEMA**  Aug 2018 – May 2021  Data AnalystWashington D.C.   * Developed and implemented a complex AWS Athena query system to retrieve and process data from AWS data storage system, enabling faster insights for the data science team. * Developed and managed ETL processes using AWS Glue, automating data extraction, transformation, and loading for analytics and reporting. * Wrote and optimized ETL scripts in Python, improving data processing efficiency by 30%. * Built an interactive data visualization dashboard for business analysts, facilitating better understanding of complex data sets. * Fine-tuned SQL Server 2019 database, reducing query execution times by 60% through optimization of execution plans, query restructuring, and proper indexing. * Optimized AWS DynamoDB performance for large-scale applications by redesigning partition keys and implementing efficient query strategies, improving query performance by 40%. | (571) 354-9369  [wesleylau.wcl@gmail.com](mailto:wesleylau.wcl@gmail.com)  [LinkedIn Profile](https://www.linkedin.com/in/wesley-lau-34a8b374/)  **SKILLS**  • Data Analysis  • Data Cleansing  • Data Warehousing  • Database management  • Systems Integration  • Extract, Transform, Load  • Data Visualization  • Data Modeling  **Certification**  • Google Advanced Data Analytics Specialization.  (Mar 2024)  • Google Data Analytics Professional Certificate.  (Feb 2024)  • Qlik Sense Data Architect-v3. (Aug 2016)  • Microsoft Certified: Power Platform Functional Consultant Associate  (Expected Oct 2024)  • AWS Certified Data Engineer – Associate  (Expected Nov 2024)  **Tools/ Software**  • AWS  • Docker  • Python (Pandas, PySpark)  • Git (GitHub, GitLab)  • RDBMS (Oracle, Postgres,   MySQL, SQL Server)  • MongoDB  • Neo4j  • Qlik Sense  • Tableau  • Power BI  • Talend  **EDUCATION**  Olivet Nazarene University,  **Bachelor** of Science in **Engineering,**  **Electrical Engineering** |
| **Flagstar Bank**  Oct 2017 – Mar 2018  Data AnalystDetroit, MI   * Designed data pipeline that imports data from different data base including Oracle, MongoDB and S3 files into Qlik sense. * Deployed a customized ETL solution ETL job to parse and load XML and JSON data into MongoDB. * Created interactive data visualizations for 230 non-technical employees, simplifying complex data sets and facilitating better decision-making; increased data comprehension and actionable insights across the organization.   **First Guarantee Mortgage Company**  Sept 2016 – Sept 2017  Data AnalystMcLean, VA   * Leveraged SQL, Python, and Qlik Sense to analyze 20TB of data and improved business decisions making. * Created a comprehensive data visualization dashboard leveraging Qlik Sense to convey complicated data sets to the business Analysts for improving customer’s experience. * Constructed custom Talend job to extract data from centralize Oracle database to transactional MongoDB. * Established BI connector between MongoDB and Qlik Sense within Linux environment. | |