Aaron Muganda

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Profile

- Fourth-year student in the Software Engineering program at the University of Ottawa
- Experience with DAX, M, R, Python programming languages
- Experience in data analysis with Python, SQL, MongoDB, and Power BI
- Experience in data visualization with Power BI and MS Excel
- Experience in application development with Power Apps
- Experience in process automation and workflow optimization with Power Automate
- Experience in BI analysis and BI development
- Experience with Agile development approach
- Experience with Scrum, Kanban, Scrumban, Lean, and DevOps methodologies
- Proficient with tools such as Jira, Wrike, Asana and Confluence
- Excellent verbal and written communication skills in both French and English

Education

Bachelor of Applied Science in Software Engineering, option in Management and Entrepreneurship in Engineering (COOP)
University of Ottawa, Ottawa, Ontario
September 2021 – Present

- Expected graduation date : December 2025
- Number of credits earned: 114 / 129

Experience

Data Analyst
Intact, Montreal, Quebec
January 2024 – April 2024

- Imported and formatted data from various sources and databases using MongoDB and Power BI
- Developed data visualizations with Power BI
- Set up monthly reporting with process automation
- Maintained and analyzed performance metrics and reports that support data-driven decision-making

BI Analyst / Developer
Kruger Products, Gatineau, Quebec
September 2023 – December 2023

- Automated and computerized a management system for receiving vital products, cartons, and paper rolls using Power Automate and Power Apps
- Developed performance tracking tools and automated process execution
- Developed various applications to meet internal client needs using Power Apps
- Developed electronic inspection tools in the factory using Microsoft Power Platform
- Created data visualizations with Power BI
- Maintained and analyzed performance metrics and reports that support data-driven decision-making with Power BI
- Developed effective communication tools with Power Apps
- Provided support for large-scale project deployment aimed at continuous process improvement in logistics
- Assisted in solving technical IT problems

BI Analyst / Developer
Bombardier Aerospace, Montreal, Quebec
January 2023 – April 2023

- Improved existing data reports with Power BI
- Participated in the development of factory performance tools by creating applications
- Analyzed data, data models, databases, data flows, and reports using Power BI
- Built performance indicators with Power BI
- Developed various applications to meet internal client needs using Power Apps
- Managed the creation and importation of data, data models, databases, and data flows with Power BI
- Managed and planned BI projects with stakeholders from development projects
- Designed tools for performance monitoring and optimization
- Interacted with internal clients and stakeholders

Projects

Power BI Dashboards | Power BI, Python, Excel, VS Code, Github
- Generated data in CSV format files using Python scripts for analysis
- Extracted, transformed and loaded data from various sources using Python
- Imported the prepared CSV data into Power BI for further modeling and visualization
- Created interactive Power BI dashboards
- Analyzed, developed and visualized data
- Enabled interactive exploration and insights generation through dynamic dashboards

e-Hotels | HTML, CSS, JavaScript, React.js, Node.js, PostgreSQL, MySQL, SQL, VS Code, Github
- Create the SQL database to store the website data
- Design the various tables to store the respective information for each entity (hotels, rooms, bookings, clients, etc.) of the database

Skills

Technical Skills
- Operating Systems: Windows and Mac OS
- Databases: MongoDB, PostgreSQL, SQL, MySQL, NoSQL
- Others : GraphQL, Postman, Insomnia
- Development Environments: Visual Studio Code, Intelli J IDEA, Eclipse, Application Stack Builder
- Microsoft Office 365
- Google Workspace
- Project Management Tools: Wrike, Asana, and Jira
- Version Control and Source Code Management: Git and GitHub
- Collaborative Work and Documentation: Confluence and Stream
- Prototyping: Canva, Miro, and Figma

Communication
- Proficient in writing practices specific to scientific and technical fields
- Skilled in delivering oral presentations and writing technical reports
- Ability to write clear, detailed, and complete technical documentation
- Presentation of analytical results to non-specialists

Data Analysis
- Ability to identify trends and patterns in data
- Creation of interactive dashboards
- Charts and data visualizations
- Descriptive data analysis
- Exploratory data analysis
- Multivariate data analysis
- Linear regression
- Design and management of databases
- Extraction, transformation, and loading (ETL)
- Relational database management systems

Business Analysis
- Data visualization for decision-making
- Storytelling skills to provide context for data
- User and stakeholder needs analysis
- Identification and analysis of business problems
- Development of effective solutions
- Ability to anticipate obstacles and find alternatives
- Project planning and management
- Monitoring and respecting deadlines
- Stakeholder management
- Trend and pattern analysis
- Evaluation of the impact of business decisions
- SWOT analysis (Strengths, Weaknesses, Opportunities, Threats)
- Data security and confidentiality
- Data quality management