

Markelle Ngishu

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GitHub: <https://github.com/markelle-ngishu>

SUMMARY

Highly skilled computer programmer seeking opportunity as entry level software developer.

TECHNICAL SKILLS

- **Programming:** Database design, implementation, PL/SQL, administration, object-oriented analysis & design, object-oriented programming, testing & maintenance of code, Web page programming languages.
 - **Languages:** Knowledge of Python, Java, Html, Java Script, C#.
 - **Software:** Certified in use of Microsoft Word, Excel, Access, and Power Point.
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EDUCATION

Bachelors, Computer Science (2025)	Western Governors University	Millcreek, UT
ITIL 4 Foundation Certification (2024)	Axelos	Arlington, TX
LPI Linux Essentials Certification (2024)	Linux Professional Institute	Arlington, TX

EXPERIENCE

Website Manager, Altus, OK (2020-2024)

Main Street Altus

- **Promoted from Website Development Intern to Website Manager** after successfully designing and launching the official website for Main Street Altus, demonstrating technical expertise and initiative.
- Spearheaded the development of a user-friendly website interface to showcase community events, initiatives, and resources, driving increased engagement and participation.
- Managed website traffic, optimized performance, and ensured the accuracy of event information, resulting in a reliable and up-to-date platform for the community.
- Collaborated with organizational leaders to align website features with community goals, enhancing user experience and supporting strategic objectives.
- Oversaw IT and tech support for the website, troubleshooting issues and implementing solutions to maintain seamless functionality.

Tech Center Ambassador, Altus, OK (2020-2022)

Southwest Technology Center

- Guided children and parents in selecting the most suitable academic programs, focusing on Business and Computer Technology and Graphic Design.
- Provided detailed program overviews, answering questions to help families make informed decisions about educational pathways.
- Represented the technology center at events, promoting career and technical education opportunities to prospective students.

RELATED PROJECTS

Completed these projects (among many others) in course work towards Computer Programming Diploma:

- **Vacation Booking Back-End Migration**
GitHub: github.com/markelle-ngishu/vacation_backend
 - Developed a modern Java Spring backend for a travel agency's vacation booking system, replacing a legacy 1990s backend.
 - Migrated mission-critical functionalities to a scalable and maintainable framework, addressing technical debt and improving overall system performance.
 - Enhanced data request handling by implementing optimized APIs for seamless communication with the frontend and database.
 - Ensured system reliability by adhering to best practices in backend development, including dependency injection, modular design, and unit testing.
- **Spam Detection with Machine Learning**
GitHub: <https://github.com/markelle-ngishu/Spam-Detection-with-Machine-Learning>
 - Classifies emails as spam or not spam using machine learning.
 - Uses Random Forest and Gradient Boosting classifiers for robust prediction.
 - Applies ensemble learning techniques, including model stacking, to improve accuracy.
 - Performs feature selection to identify the most relevant email attributes for classification.
 - Includes hyperparameter tuning to optimize model performance.
 - Evaluates model performance using metrics like accuracy, precision, recall, and F1-score.

OTHER EXPERIENCE

By the implementation of my Western Governors education, I have attained and excelled many skills throughout my computer programming course work:

- Installing and configuring various software such as MySQL, IntelliJ, Net Beans.
- Analyzing, designing, writing technical reports/documenting specifications of various software.
- Writing applications in many different languages, testing, debugging, fixing bugs, documenting.
- Modeling, designing, implementing and creating databases.
- Writing PL/SQL statement.
- Creating user ID's, role, profile and verifying the password.

Related Course Work

Business Programming • Object-Oriented Programming (java) • Database Systems • Web Programming • System analysis and design • Graphical Interface Programming (C#) • Object-Oriented Programming with Design Patterns • Database Administration • Data Structures and Algorithms (Python) • Computer Systems Architecture • Discrete Mathematics • Calculus • Artificial Intelligence Optimization