

# NICKMOON MWARE

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## Summary

Experienced Software Engineer with a strong foundation in computer science. Skilled in full-stack software development, and proficient in multiple programming languages and technologies. Effective team collaborator with a track record of delivering innovative software solutions. Known for problem-solving ability and a commitment to staying current with emerging technologies. Seeking to contribute expertise in a dynamic software engineering role.

## Skills

- **Technical Skills:** Software Engineering, Machine Learning, System Operations, Data Mining and Analysis, Software Design, Scripting and Automation, Data Visualization, Oracle/SQL Server, Data Warehouse/ETL, PLSQL/T-SQL, Web Development
- **Programming Languages:** Python, C++, SQL, HTML, PHP, R, JavaScript.
- **Libraries:** Librosa, spaCy, Matplotlib, NumPy, Pandas

## Experience

**Data Analysis Intern** June 2020 to Dec 2022

**BOSR Nebraska (Bureau of Sociological Research)** — Lincoln, NE

- Analyzed data requirements and flow for university departments and State of Nebraska entities, enhancing processing efficiency by 12%.
- Transformed data requirements into models using SPSS and Python, ensuring streamlined information handling.
- Collaborated with cross-functional teams to integrate data governance seamlessly, facilitating smooth operations.
- Applied analytical techniques, leading to a 12% improvement in data processing and management.

**Application Development and Support Intern** June 2018 to June 2020

**AgFirst Farm Credit Bank** — Columbia, SC.

- Developed and optimized 13 T-SQL programs, enhancing data processing efficiency by 30%.
- Documented technical architecture and design of core loan accounting systems using Microsoft Visio and Orbus iServers, ensuring clarity for team understanding.
- Presented detailed project impact analysis to the company CEO and senior officials at the capstone ceremony, emphasizing tangible results and actionable insights.
- Contributed to software development initiatives, maintaining coding standards and achieving a 20% improvement in code reliability.

## Education

**Master of Science, Computer Science** Dec 2022

University of Nebraska-Lincoln (UNL)

**Bachelor of Science, Computer Science (Minor in Finance)** May 2020

Benedict College

## Project

**Impact of Accents on the Operation of Voice User Interfaces (VUIs), Thesis, Python.** Aug 2021 to Dec 2022

- Conducted in-depth research in Natural Language Processing (NLP) and Human-Computer Interaction (HCI) due to the increase in use of voice user interfaces, providing need for this kind of software to adopt to different accents.
- Developed an interactive voice recognition software that translates spoken and recorded audio to text.
- Utilized librosa and SPPR libraries in python and deep learning to obtain accurate translation, resulted in a 84.2% accuracy in voice-to-word interpretation.

**A Comparative Study of Six Scripts based on Extend Feature List, Co-Author, Python** Sept 2021 to Aug 2022

- Conducted a comparative analysis on six scripts (Persian, Kurdish, Hebrew, Georgian, Swahili, and Egyptian Arabic) to identify shared patterns across at least 19 out of 27 alphabets by region.
- Developed a python analysis matrix to assess script symbols using feature-based similarity measures.
- Published research in an accepted paper at the IDEAS conference and visually presented findings at the Budapest, Hungary conference in August 2022.

**A Relational Database for Chicago Police Department, Class Project, SQL** Dec 2021

- Developed an SQL relational database to efficiently manage crime-related data and offenses sourced from the Chicago Police Department.
- Utilized oracle database solutions for smooth data integration and created video tutorials demonstrating effective data retrieval techniques.