

Michael Joson

Github: github.com/MichaelJoson

Email: moson234@gmail.com

Mobile: 224-256-1137

EDUCATION

- **DePaul University** Chicago, Illinois
Master of Science - Data Science, Concentration in Computational Methods June 2023 - January 2025
- **Bradley University, GPA: 3.30** Peoria, Illinois
Bachelor of Science - Computer Science, Concentration in Data Science August 2019 - June 2023
Courses: Distributed DBs and Big Data, Machine Learning, Fundamentals of Data Science, Knowledge Discovery and Data Mining, Operating Systems, Data Structures, Algorithms, Computer Architecture, Networking, Database Management Systems, Software Engineering, Linear Algebra, Calculus, Discrete Math

SKILLS SUMMARY

- **Languages:** Python (Numpy, Pandas, Scikit-learn), Java, C, C++, PHP, SQL, R, HTML, CSS
- **Data tools:** MySQL, MongoDB, Jupyter Notebook/lab, Apache Spark, Tableau
- **Platforms:** Linux, Windows, AWS, Visual Studio
- **Soft Skills:** Cooperation, Team Management, Writing, Multi-tasking, Time Management

PROJECTS

- **Predicting DKA Using Machine Learning (In Progress):** Meeting client needs by finding the best model to predict the likelihood of Pediatric Diabetic Ketoacidosis given several risk factors. Implemented machine learning algorithms and techniques to determine an accurate and consistent model.
- **Fantasy Football Database :** Designed a normalized database with an ERD and data dictionary for my schema. Developed an administrative platform using PHP and HTML to read unnormalized data from CSVs and use an ETL process to organize data into MySQL based on the ERD. Used PHP to query the database and display subsets of tables.
- **Exploratory Data Analysis:** Analyzed Spotify's Weekly Top 200 Songs Streaming Dataset to predict the number of streams a song is likely to receive based on sound features such as acousticness, danceability, and energy from Spotify's API. Utilized various machine learning algorithms for our predictions to achieve the best accuracy.
- **AWS Serverless Application:** Implemented a serverless reminder app in AWS using an event-driven architecture. Configured Amazon SES with a Lambda function and SNS to allow the user to receive an email and/or a text notification. Used Step Functions to build a state machine to handle the user's choices. Hosted app as a static website on S3 behind an API Gateway REST API.
- **Client Server Hangman Game:** Developed a hangman game in C++ using a client-server model. The server allows connections from multiple clients and will listen on a socket till a client connects. Once the client connects it will listen for letter guesses as user inputs and sends the inputs to the server which returns the results.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**
June 2022 - June 2025
- **AWS Certified Solutions Architect - Associate**
June 2022 - June 2025
- **Google Data Analytics Certificate**
July 2022 - Present

HONORS AND AWARDS

- **Dean's List - Fall '21, Spring '22:** Recognized for achieving a 3.5 GPA
- **Silver-Cord:** Recognized for over 50 hours of community service

EXTRACURRICULARS

- **2022 CSCC Programming Competition** Peoria, Illinois
Worked with a partner to place in the top 10 of the 2022 CSCC Midwest Programming Competition 2022
- **Piano Lessons** Huntley, Illinois
Formally took piano lessons and competed in piano competitions annually 2008-2019
- **St. Mary's Catholic Church** Huntley, Illinois
Volunteered as an usher and contributed in other volunteering activities at my local church 2016 - 2019