Chidera 'Chi' Biringa

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EDUCATION

University of Massachusetts Dartmouth   Dartmouth, MA

College of Engineering, ABET Accredited

Master of Science in Computer Science (Expected December 2020)   January, 2019 – Present

- Courses Taken: Advanced Data Mining; Advanced Machine Learning; Database Design
- Grade Point Average: 3.7/4.0

Bells University of Technology   Ota, Nigeria

College of Natural and Applied Sciences

Bachelor of Technology in Computer Science   November, 2013 – May, 2017

- Courses Taken: Algorithms and Data Structures; Object-Oriented Programming; Operating Systems
- Grade Point Average: 4.6/5.0

SKILLS

Programming Languages:	Java; Python; R; SQL; Swift; JavaScript
Libraries:	Caret; Keras; OpenCV; Pandas; Pytorch; Quanteda; Scikit-Learn; Tensorflow; Tidyverse
Software:	Excel VBA; Git/GitHub; LaTeX; Power Bi; Tableau; Wireshark
Frameworks and Models:	Agile Development; Scrum; UML; Unit Testing

PROJECTS

SQL Query Evaluator (5 - person project)
- Built an SQL query evaluator for a single-threaded database that can run TPC-H queries   February - April, 2020
- Built using Java, CCJSqlParser and evallib libraries
- Implemented support for Select, Project, Join, Union and Aggregate operations
- Implemented standard optimization techniques such as projection and selection pushdown and cross product to join conversion

Predictive Frame Inference (PIF) Model (3 - person project)
- Built a Predictive Inference Model (PIF) model for video prediction   April, 2020 - Present
- Built using Python, PyTorch and numpy libraries
- The model can generate in between frames of a video thus increasing the frame rate

Authorship Attribution Model (1 - person project)
- Built a classification model that predicts Victorian Era Authors based on their authored novels   November - December, 2019
- Built using R, quanteda, caret, and tidyverse libraries
- Critical predictors of the model were derived from sentiment anaylsis

Customer Response Chatbot (1 - person project)
- Built an Artificial Intelligence-powered customer response chatbot   December, 2019
- Built using R, quanteda and stringi libraries
- The model was able to predict 3 correct responses from 5 sequential questions

WORK EXPERIENCE

UMass Dartmouth   MA, US

Grader   September - December, 2019

- Graded assignments, projects and exams for a course on Software Process and Project Management

UMass Dartmouth   MA, US

Teaching Assistant   September, 2019

- Taught computer programming using Swift programming language

Amuwo-Odofin Secondary School   Port Harcourt, Nigeria

Science Teacher   May - August, 2015

- Taught Information Technology to 9th grade student
- Taught Mathematics to 12th grade student

Nigerian National Petroleum Corporation   Port Harcourt, Nigeria

Software Engineering Intern   May - August, 2015

- Developed webpages for the engineering section of the company
- Designed strategies to improve the performance of in-house crude oil processing software

LEADERSHIP EXPERIENCE

UMass Dartmouth Navitas GSSP   MA, US

Orientation Leader   September, 2019

- Lead arriving International students along their orientation journey to help acclimate them to campus life and culture