

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

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

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
- 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

February - April, 2020

Predictive Frame Inference (PIF) Model (3 - person project)

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

April - May, 2020

Authorship Attribution Model (1 - person project)

- Built a classification model that predicts Victorian Era Authors based on their authored novels
- Built using R, quanteda, caret, and tidyverse libraries
- Critical predictors of the model were derived from sentiment analysis

November - December, 2019

Customer Response Chatbot (1 - person project)

- Built an Artificial Intelligence-powered customer response chatbot
- Built using R, quanteda and stringr libraries
- The model was able to predict 3 correct responses from 5 sequential questions

December, 2019

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 2017 - April, 2018

- 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