Chidera 'Chi' Biringa

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EDUCATION

University of Massachusetts Dartmouth   Dartmouth, MA

College of Engineering, ABET Accredited

January, 2019 – Present

Master of Science in Computer Science (Expected September 2021)
- 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

November, 2013 – May, 2017

Bachelor of Technology in Computer Science

RELEVANT SKILLS

- Proficient in data wrangling and building AI-powered systems with Python and R.
- Proficient in full-stack web development with HTML5, CSS3 and Javascript.
- Proficient in object-oriented programming languages.
- Proficient in basic Linux/UNIX commands to create and process files and processes.
- Solid ability to solve problems by designing and implementing programs.
- Proficient in analyzing and composing procedural code utilizing selection structures, repetition structures, arrays, memory management, bitwise operators, unions, linked lists, queues, stacks, hash maps, graphs and tries.

TECHNICAL SKILLS

Programming Languages:	C++, Java, Python, R, SQL, JavaScript
Databases	MySQL, NoSQL
Machine Learning | Data Analysis:	Pytorch, Scikit-Learn, Caret, OpenCV, Pandas, Quanteda, Tidyverse
Software:	MS Office; SPSS; LaTeX; Power Bi; Tableau

PROJECTS

SQL Query Evaluator (5 - person project)   February - April, 2020
- 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.

Lines (1 - person project)   May, 2020
- Built a personal portfolio website to showcase some of my work.
- Built using HTML5, CSS3 and Vanilla Javascript.

Beach Boy (3 - person project)   September, 2020
- Built a 2D platform game.
- Built using Godot Engine and GDscript.

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

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

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

WORK EXPERIENCE

UMass Dartmouth - Cybersecurity center   MA, US

Graduate Research Assistant and Fellow   September, 2020
- Current Research: Multi-Dimensional Performance Impact Analysis of Security Updates in Software Development Lifecycle focused on the application of DevSecOps, NLP, and Deep Learning.

UMass Dartmouth   MA, US

Teaching Assistant \| Grader   September - December, 2019
- Taught computer programming using Swift programming language.
- Graded assignments, projects and exams for a course on Software Process and Project Management.

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.