

# 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 December 2020)

- 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

- Courses Taken: Algorithms and Data Structures; Object-Oriented Programming; Operating Systems

## RELEVANT SKILLS

- Proficient in object-oriented programming languages.
- Proficient in building machine learning models with Python and R using Pytorch, Tensorflow and Caret libraries.
- Proficient in full-stack web development with HTML5, CSS3, Javascript, Python and SQL using Bootstrap, React, Heroku and MySQL.
- Knowledgeable with Dart using Flutter framework to build natively compiled IOS and Android mobile applications.
- Proficient in basic Linux/UNIX commands to create and process files and processes.
- Solid ability to solve problems by designing and implementing programs.

## TECHNICAL SKILLS

Programming Languages: Java; Python; Dart; R; SQL; Swift; JavaScript

Frameworks/Libraries and Platforms: React.js; Flutter; Pytorch; Quanteda; Caret; Scikit-Learn; Tensorflow; Tidyverse; Git/Github

## PROJECTS

### Hoard (1 - person project)

- Built a RESTFUL API with full CRUD functionalities to keep track of my part-time bibliophilic sessions.
- Built using Python, Flask, SQLite, and SQLAlchemy.

June, 2020

### Lines (1 - person project)

- Built a personal portfolio website to showcase some of my work.
- Built using HTML5, CSS3 and Vanilla Javascript.

April, 2020

### 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, CCJSqParser and evallib libraries.
- Implemented support for Select, Project, Join, Union and Aggregate operations.

February - April, 2020

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

- 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.

April - May, 2020

### Authorship Attribution Model (1 - person project)

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

November - December, 2019

### Customer Response Chatbot (1 - person project)

- 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.

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

Teacher

May 2017 - April, 2018

- Taught Information Technology and Mathematics to 9th and 12th grade students respectively.

### 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.