

# 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

### 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

## SKILLS

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

Software: Excel VBA; Git/GitHub; LaTeX; Power Bi; Tableau; Wireshark

Frameworks: React Native; Scrum; UML

## PROJECTS

### Lines (1 - person project)

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

February - April, 2020

### SQL Query Evaluator (5 - person project)

- Built an SQL query evaluator for a single-threaded database that can run TPC-H queries
- 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
- Built using Java, CCJSqlParser and evallib libraries

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

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