

NICHOLAS GUILFOYLE

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EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor of Science in Data Science

December 2020

GPA 3.53/4.00

Coursework: Data Structures and Algorithms, Applied Linear Regression, Machine Learning, Introduction to AI, Database Management, Web Systems, Conversational AI

EXPERIENCE

US Census Bureau

Lansing, MI

IT Support Clerk

July 2020 – August 2020

- Managed distribution and tracking of over 3,000 Census IOS devices to assist Census field staff
- Used Remedy IT Services to help Census staff with technical support issues in the field
- Trained new IT clerks on Census procedures for peak census operations

AT&T

Remote

Summer Extern

June 2020 – July 2020

- Online summer program to develop business skills for college students

McDonald's

Holt, MI

Crew Member

June 2017 – August 2019

- Worked in food preparation and customer service, training new employees on both areas

PROJECT EXPERIENCE

University of Michigan

Ann Arbor, MI

Introduction to Machine Learning

September 2019 – December 2019

- Trained perceptron model for binary classification of movie reviews
- Trained convolutional neural network for predicting movie genre from poster image
- Used an autoencoder for image compression and decompression

Conversational AI

August 2020 – December 2020

- Worked with Amazon Lex Natural Language Processing for intent handling for chatbot
- Created layered AWS Lambda backend for accessing and modifying end user data

Web Systems

September 2020 – December 2020

- Built client-side dynamic Instagram clone using Flask and React JavaScript
- Set up multi-threaded map-reduce in python with fault tolerance capability
- Basic Wikipedia search engine with student implemented inverse index and front-end

Database Management Systems

January 2020 – April 2020

- Wrote SQL Schema and queries for a Facebook-like Social Network
- Created Java and MongoDB applications to interact with online Oracle database

Hobby Experience

Guilfoyle College Football Poll

November 2019 – January 2020

- Used python API for Sports-Reference.com to get weekly updated college football data
- Created a two-round ranking algorithm to rank teams based on strength of record

SKILLS

Programming Languages: C++, Python, SQL, Java, R, Javascript

Software: Stata, Alexa Development, Flask, React, Scikit-Learn

