

# Matt MacDonald

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**OBJECTIVE:** I am a highly motivated Computer Engineering senior seeking a full-time position where I can contribute with my software engineering and data science experience.

## EDUCATION

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### Bachelor of Science, Computer Engineering, May 2021

The University of Texas at Austin

Capstone Project: Building a neural network to detect differences between images from an Amazon product dataset

Coursework: Principles of Data Science, Data Science Lab, Software Engineering Lab, Operating Systems, Algorithms

## WORK EXPERIENCE

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### Zipp, Intern, 06/2020 – Present

- Led software testing of video communications application by building a test suite to identify and eliminate bugs
- Recursively tested application after each update to ensure elimination of bugs and compatibility of new features
- Assisted in design decisions to improve user experience with the application

### Temasys Communications, Intern, 06/2019 – 08/2019

- Built demonstration use cases in Appian to demonstrate capabilities of Temasys component for various applications
- Coded in Appian to improve efficiency of message handling and data store retrieval for Temasys component

### Shoof Technologies, Intern, 06/2018 – 08/2018

- Arranged and tested ranging software and hardware to determine accuracy, leading to significantly improved results by the conclusion of my internship

## ADDITIONAL EXPERIENCE

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### Data Analysis Technical Build Team Lead, Convergent, Fall 2020

- Organized technical lectures to teach members the fundamentals of building data science projects
- Presented data science tutorials to teach members how to process datasets and build models using Python
- Consulted with member subteams on the viability and implementation of their project ideas to ensure their models will provide useful insights by the end of the semester

### American P.I.E., Software Engineering Lab, UT Austin, Fall 2020

- Built the frontend using HTML, CSS, and Bootstrap to display political information on dynamically populated web pages
- Utilized Python and Flask to query json data from a database and implement a navigation bar, pagination, etc.

### Money(Basket)Ball, Data Science Principles, UT Austin, Spring 2020

- Formatted and processed large datasets using the Python library pandas to prepare them for modeling
- Created a linear regression model to predict the winner of any given NBA game with nearly 70% accuracy

### Web Development Lead, Convergent, Spring 2020

- Led a program to teach members coding skills and how to build dynamic web pages with HTML, CSS, and JavaScript
- Collaborated with other officers to organize meetings and maintain membership as the semester went online

### Happy Hours, Convergent, Fall 2019

- Designed an algorithm to find optimal restaurant discounts to raise profits through analysis of popularity and sales data

## SKILLS

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- Proficient in: Python, Scikit-learn, pandas, HTML, CSS, JavaScript, React, Flask, Java, C, C++, SQL, MongoDB, GitHub
- Experienced in evaluating problems and designing optimal solutions
- Comprehensive experience with data science and analysis
- Strong leadership, communication, and collaborative skills