# PHILLIP MCAUGHAN

### **Computer Engineering Student**

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**\** 281-799-2613

**♀** Houston, Texas

% phillipmcaughan.com

## **EDUCATION**

Texas A&M University

Bachelor of Science - Computer Engineering GPA: 3.7

## Aug 2018 - May 2022

## **TECHNICAL SKILLS**

#### **SOFTWARE**

- Experience working within a Linux environment
- Experience using Git and debugger tools, including GDB
- C++, Python, Java, C#, Bash, Verilog, ARMv8 Assembly, LTEX, HTML & CSS

#### **HARDWARE**

- Experience working with BJT and CMOS circuits
- ARM Architecture

## **RELEVANT COURSEWORK**

- Digital System Design
- Computer Architecture and Design
- Data Structures and Algorithms

## **PROJECTS**

#### **Neural Network Digit Recognition**

- Implemented digit recognition using MNIST dataset
- Skills used Keras, Python, Neural Networks

#### **Machine Learning Diabetes Predictor**

- Created a predictor for diabetes given a handful of diagnostic measurements
- Used Decision Tree machine learning
- Skills used Python, Pandas, Data Analysis, Decision Tree Machine learning

#### **Seam Carving Image Resizing**

- Implemented content aware image resizing algorithm
- Utilized greedy algorithm approach to dynamically remove the least important parts of an image using a method published in SIGGRAPH in 2007
- Skills used C++, GDB, Image processing

## **EXPERIENCE**

#### Residential Advisor

#### **Duke Talent Identification Program**

**2019** 

**♀** Sherman, TX

- Led and organized program and activities for gifted students
- Responsible for encouraging productive team dynamics and resolving conflicts amongst students
- Skills Leadership, Planning, Communication

## Lead Programmer

## **FRC Robotics**

**2016-2018** 

♥ Houston, TX

- Led team to qualify for world tournament in high school robotics competition
- Implement control system for complex competition robot
- Designed and coded autonomous behavior for various activities
- Skills used Java, Git, Team leadership

# Texas A&M Cybersecurity Club

**#** 2019

- Active Member of club and participated in professional development workshops
- Implemented virtual machine environments to explore concepts in cybersecurity
- Skills Used Virtualbox, Apache2, Wireshark, GPG