

EDUCATION

College Station, TX

Texas A&M University

Fall 2015 – Spring 2020

- **Major:** Computer Engineering, B.S.E.
- **Programming Coursework:** Algorithms and Data Structures, Computer Systems, Software Engineering
- **EE Coursework:** Computer Arch., Circuits, Logic Design, VLSI Design, Signal Processing

PERSONAL PROJECTS

Music Compatibility App

- Lead developer for python application utilizing the Naïve-Bayes algorithm that trained a model for user's music interests and predicted if future artists/songs would be liked by the user.
- Created python script using Spotify API's JSON files via user inputs to populate data model for prediction.
- Prediction model had an accuracy of 87.5% to correctly identify likeness of artists/songs for user.
- Used: Python, Spotify REST API

Simple Database Application

- Utilized Java/SQL to design and implement complex relational database through client server app.
- Continued to develop app by constructing efficient query processing by views, indexing, buffering.
- App consisted of relational/non-relational databases among showcasing complex tables with references.
- Used: Java, Eclipse, SQL, MongoDB

Swarm Recovery Rovers

- Piloted as team lead to develop autonomous rovers utilizing swarm recovery technology to pick up packages weighing up to 200 lbs from user inputs sent from Andriod App and delivery to specified locations.
- Optimized voltages of Sabertooth motor driver through Arduino PWM Modulation for obstacle avoidance.
- Created Android App that sends user specifications to Raspberry Pi server on rovers via Wi-Fi.
- Used: Java, Android Studio, Python, SQL, Raspberry Pi, Arduino, Git

Aggie Whoop App (<https://aggiewhoop.herokuapp.com>)

- Developed web app using Agile methodology for Texas A&M Study Program using Ruby on Rails framework.
- Created 'cards' page that listed POI objects for the user to review/view during post user query by location.
- Continued to build cucumber tests throughout development cycle for all links and pages.
- Communicated between client and team as PM while documenting each meeting.
- Used: Ruby on Rails, HTML/CSS, JavaScript, Git, Heroku

Aggie Attendance Tracker

- UI developer creating pages for student/professor logins for attendance tracking program.
- Developed student tracking logic by unique ID's while creating and running test cases.
- Used: Java, JavaFX, Git

ZTB 3D Printing

- Created business featured on quality prints for capstone projects using in house 3D printers.
- Increased revenue by 50% each semester through referrals while engr. building was under construction.
- Capitalized on procrastinating students working on capstone projects with timely prints at expedited cost

EXTRACURRICULARS & EXTRAS

- **Vietnamese Student Association:** Designed Asian Olympics registration for website.
- **Society of Asian Scientists & Engineers:** Professional organization over careers and volunteering.
- **Honors:** Regent's Scholar Recipient, 1st place Tennis State Tournament, D2 LoL top 8 finish

Languages and Technologies

- **Software:** (Proficient) C++, SQL, Python, Git (Familiar) Ruby, Java, Matlab, JavaScript, HTML/CSS
- **Technologies:** Eclipse, XCode, Linux, Visual Studios, Android Studio, Raspberry Pi, Arduino