

# GABRIEL MARSHALL

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## EDUCATION

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**Texas A&M University**  
*Bachelor of Science in Computer Engineering*  
*Associate of Arts via Dual Credit during high school*

*Aug 2021 - Present*  
*GPA: 3.44*

## SKILLS

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<b>Programming Languages</b>	<b>Python, C++, C, Assembly, HTML, CSS, JavaScript</b>
<b>Technologies</b>	<b>ReactJS, TailwindCSS, Arduino, Linux, Verilog HDL, FPGA</b>

## WORK EXPERIENCE

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**Electrical Systems Engineer Intern** - Stargate Manor Arboretum *May 2023 - Present*

- Led a \$750,000 project to manage construction crews and purchasing supplies for solar farm
- Researched and weighted out options of hydro-power and wind compared to the solar energy yield
- Reduced overall energy costs for the company by 65% which saved \$1,521 a year

**Administrative Assistant** - Shampooch Me, Mobile Dog Grooming *Jan 2020 - Aug 2022*

- Created a Python application to mainstream finances to decrease manual labor by 82%
- Effectively managed resources to improve maximum financial budget by 24%

## PROJECTS

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**Rocket Building Competition** - Build-a-Rocket

- Led a team of 5 to construct a flight computer to calculate speed, acceleration, altitude and rotation of a rocket
- Built a radio transceiver to display this information in mid-flight and the condition of the rocket
- Programmed the Arduino attached to the rocket with C++ and Python for the GUI for the statistics

**Mobile Dating App** - Paw

- Built a cross-platform mobile app and created a cross-referencing algorithm to "match" users
- Used a SQL database to store profiles and RESTful API when users interacted with the app
- Worked with React Native and Expo to build the front-end and part of the back-end of the app

**Shampooch Me Website**

- Created, tested and deployed a professional website for previous employer
- Programmed the front-end and part of the back-end with ReactJS and TailwindCSS
- Increased daily customer visit rate by an average of 22% and average new monthly clients by 8 people

**Weather Web App**

- Built a web application to display the weather such as temperature and humidity from across the US
- Incorporated an API to pull weather data and to also pull the users current location as a default location
- Programmed the front-end with HTML & CSS and Javascript for the back-end functionality

## ORGANIZATIONS & COMMUNITY INVOLVEMENT

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**Aggies Create** *2023 - Present*

- Leading software development team to develop AI medical wristband with Nurowerx
- Previously led hardware and software teams to create a smart plant pot with start-up

**Aggie Coding Club** *2022 - Present*

- Design and construct projects while attending weekly workshops and socials

**Philippine Student Association** *2021 - Present*

- Develop a deeper understanding about Philippine culture from cultural workshops and events