# **CASEY PEI**

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### **EDUCATION**

Texas A&M University, Computer Science – 2021-2025

GPA: 3.7 – Computer Science major, Statistics minor Engineering Honors Student, Craig and Galen Brown Scholar

## La Cueva High School, – 2017-2021

Class rank: 1 out of 415 (Valedictorian)

SAT: 1550, ACT: 34

#### **SKILLS AND ABILITIES**

- o C++, R, React, HTML/CSS/JS, Python, C, C#, Java, x86-64 Assembly
- Experience with APIs (Twitter, Discord, Windows)
- o Working on a team through GitHub, Git and Perforce
- o Experience with Docker, Heroku, Azure
- Use of SSH and WSL for Unix

#### RELEVANT COURSEWORK

- o software engineering (currently taking)
- o computer systems (currently taking)
- o data structures and algorithms
- o computer organization
- o discrete structures

#### **PROJECTS**

#### WORK EXPERIENCE

**Texas A&M University Health Science Center**, Research Assistant, previous Hamill Undergraduate Intern ----- June 2022 - Present Worked with biomedical research team via application of bioinformatics to develop Python, C++ and R codes and machine learning algorithms in support of genomics research. Presented work on detecting methylation patterns of 68 million DNA reads for preliminary research in early breast cancer detection.

# **ACTIVITIES**

- Fall 2022, Spring 2023 organized 450+ members into 20+ projects, using a bot connected to the Discord API, of various topics ranging from model rocketry to mobile and web applications. (github.com/aggie-coding-club/ACC-Project-Sorter)
- Spring 2022 leading a project of 20+ people using Twitter AP via Python involved with webscraping data, as well as interacting with users via DMs and replies, hosting via Heroku by Salesforce. (github.com/aggie-coding-club/twitter-bots)
- Fall 2021 in a project splicing clips based on auditory phrase detection with CMUsphinx, Python, Docker. (github.com/aggie-coding-club/EZ-YTP)

- o Best Programmed Game (judged by 3-person industry panel) TAGD Fall Game Jam 2021
- o 1st Place and Best Designed Game (judged by 3-person industry panel) TAGD Spring Game Jam 2022

committee of other students as well as give presentations at general meetings to members (30+).	