# Austin Braugh

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## Education

**Texas A&M University** College Station, TX

*B.S. in Computer Engineering (CPEN)* *Expected May 2027*
*M.S. in Quantitative Finance 4+1 (MSQF)* *Expected May 2028*

**Relevant Coursework:** Computer Architecture, Data Structures, Algorithms, Differential Equations, Linear Algebra

## Work Experience

**ROGO** March 2024 - Present

*Machine Learning Engineer*

- Created a data classification machine learning model for large-scale analysis using Scikit-learn that improved rep detection accuracy by around 20%.
- Labeled and processed a dataset of 20,000+ data points from real-world workouts, optimizing training results.

**Doit Coding** Summer 2024

*Head Instructor and Software Developer*

- Designed and implemented problem-solving-oriented lesson plans for instructors, simplifying complex coding concepts.
- Built a web-based code editor to ensure consistency across student projects without the need to set up individual interpreters.

**Dell Technologies** Spring 2023

*IGNITE Internship Team Lead*

- Led a cross-disciplinary team to produce an interactive computer peripheral prototype from the PCB up utilizing 3D printing, Python, and Circuit Python.
- Designed and executed a working prototype, presenting it to Dell engineering and technology executives, leading to competition for a patent.

## Projects

**Doit Code Editor** | *JavaScript, HTML, Vite + React*

- Built a React frontend code editor with Vite and Chakra to create an intuitive interface for users.
- Integrated with the Piston API and returns accurate outputs with errors.

**Benchmark Bot** | *Python, BeautifulSoup, Pyautogui, Selenium, CV2, Tesseract*

- Built a web scraper using BeautifulSoup and utilized image recognition algorithms (CV2 and Tesseract).
- Automated user inputs within website environments with Pyautogui and Selenium for efficiency.

## Technical Skills

**Languages:** Java, C++, Python, Circuit Python, JavaScript, TypeScript

**Tools:** Git, Bash, React, Linux/Unix, NumPy, Tesseract, BeautifulSoup, Selenium, Matplotlib, CV2, Pyautogui, PIL, Vite, MATLAB, Scikit-learn, CAD (Onshape, Inventor, Fusion 360)

**Extra Courses:** Harvard AI CS50 program, PicoCTF Digital Forensics

## References

Misty Page | mpage@tamu.edu | 979-458-3217 Program Director | Texas A&M University