

# Dominic Catania

## Honors Engineering Student

Highly motivated computer engineering student with strong leadership, problem-solving, and communication skills



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College Station



domc18.github.io/Porty



github.com/DomC18

## SOFT SKILLS

Leadership Experience

Problem Solving

Communication Skills

Adaptive Thinking

Active Listening

## TECH SKILLS

Python

Django

HTML/CSS

Java

Javascript

React

Microsoft Office

## EDUCATION

### Honors General Engineering Major Texas A&M University

08/2024 - 2/2025

College Station

Organizations/Activities

- Triangle Fraternity - Recruitment Chair
- Class Councils - Fish Council
- Aggie Robotics - Team WHOOP5
- Altar Server/Eucharistic Minister

## WORK EXPERIENCE

### Shrimp Slinger Coco Shrimp LLC

06/2023 - 12/2023

Watauga, TX

Tasks

- Preparing & expediting food; lowered average prep time by 20%
- Conducting sales; increased monthly sales by 17%
- Motivating and collaborating with other slingers

## FEATURED PROJECTS

### Vigil (07/2024 - 02/2025)

- Django web application; users set up configurations for their FRC robot and dynamically analyze match data using Plotly powered by Ollama AI which gives suggestions to the user on how to improve performance

### PathGen (10/2024 - 12/2024)

- React web application; users build straight and curved paths for VEXU robots; features event markers, constraint zones, and customizations for each robot

### FlowNote (05/2024 - 07/2024)

- Python desktop application designed to assist users in deconstructing and modularizing large-scale projects through a calendar-tree relationship using tkinter GUI

### 2024 "Carson" Robot Program (01/2024 - 04/2024)

- Java robot program for the 2024 FRC game; distance interpolation and locking to game targets using AprilTag IDs; autonomous routines with decision-making; auto-pickup and auto-score

### 2023 "Foniks" Robot Program (01/2023 - 04/2023)

- Java robot program for the 2023 FRC game; full-field localization and pose estimation using inverse kinematics and AprilTag IDs; autonomous routines with decision-making; auto-pickup and auto-score

## ACHIEVEMENTS/AWARDS

### Reta & HJ Haynes '46 University Scholarship (06/2024)

Merit-based scholarship covering 50%+ of expenses for top undergraduates at Texas A&M, funded by a philanthropic gift to support high-achieving students with strong academic and leadership backgrounds.

### FIRST Robotics Championship - Team 4206 - World Semifinalists (04/2024)

Placed 3rd in the World after district, state, and world divisional competition through collaborating on complex robot designs, programming, competition strategy, & robot operation

### Second Degree Black Belt Tae Kwon Do (08/2020)

7 year training in Taekwondo forms, sparring, weapons & techniques; national competition in each discipline; teaching students the Bo Staff weapon; mentoring & evaluating peers & younger students