Dominic Catania

Comp.Eng Student

Highly motivated undergraduate exemplifying strong leadership, problem-solving, and communication skills.

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📍 College Station

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CLASSES

- Engineering Lab I - Computation
- Principles of Statistics I & II
- Engineering Calculus III
- Program Design & Concepts
- Discrete Structures in Computing

TECH SKILLS

- Python
- R
- SQL
- Java
- Django
- React
- Javascript
- Microsoft Office

EDUCATION

B.S. Computer Engineering with University Honors
Texas A&M University

08/2024 - 05/2028   *College Station*

Organizations/Activities

- Triangle Fraternity - Recruitment Chair
- Aggie Data Science Club
- Class Councils - Fish Co Counselor
- 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 employees

FEATURED PROJECTS

Red Light Green Light (04/2025)

- Set of scripts designed for the Spring 2025 Datathon held at Texas A&M University. Utilized Python Selenium library to scrape element data and make appropriate moves in the Squid Game "Red Light Green Light".

Vigil (07/2024 - 01/2025)

- 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 (04/2024 - 07/2024)

- Python desktop application designed to assist users in destructuring 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

ACHIEVEMENTS/AWARDS

Datathon Second Place (04/2025)

Secured second place in the Texas A&M Spring Datathon by developing an innovative web scraping data analysis project that demonstrated strong problem-solving skills and effective teamwork.

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

Merit-based scholarship 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, and robot operation.