

# Dominic Catania

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## OBJECTIVE

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**Motivated sophomore Computer Engineering major seeking an internship in data industry. Experienced in aggregation, cleaning, analysis, and transforming raw data into actionable insights.**

## EDUCATION

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- Texas A&M University** College Station, TX  
*B.S. Computer Engineering; University Honors; GPA: 3.92* Aug 2024 – May 2028
  - Relevant Coursework: Statistics Principles I & II; Program Design & Concepts; Discrete Structures for Computing

## FEATURED PROJECTS

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- Red Light Green Light** Apr 2025  
*Texas A&M Datathon*
  - Utilized Python Selenium library to scrape element data and make moves in the Squid Game "Red Light Green Light" presented as a challenge in Texas A&M Datathon
- Vigil** Jul 2024 - Jan 2025  
*Nolan Catholic High School*
  - Django web application; users set up configurations for FRC robot and dynamically analyze match data using Plotly powered by Ollama AI giving suggestions to user on how to improve performance and handle anomalies
- PathGen** Sep 2024 - Nov 2024  
*Aggie Robotics*
  - React web application; users build straight and curved paths for VEXU robots; event markers, constraint zones, and customizations for each robot; path simulations based on weight, friction, and COG

## LEADERSHIP EXPERIENCE

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- Triangle Fraternity** Oct 2024 - Present  
*Recruitment Chair*
  - Applied data-driven strategies to design and optimize recruitment pipelines, resulting in 20+ members added
  - Utilized software tools and digital platforms to manage outreach, engagement, and performance metrics
  - Developed and executed outreach initiatives, information sessions, and professional development to establish organizational presence
  - Organized 3 professional workshops and academic review sessions aiding younger colleagues
- FRC Team 4206** Aug 2021 - May 2024  
*Team Captain; Driver; Lead Programmer*
  - Led a 30+ member robotics team, overseeing project management, system integration, and collaboration
  - Placed 3rd in the World by optimizing performance through data logging and match strategy
  - Applied technical problem-solving, adaptability, and teamwork skills in high-pressure environments
  - Mentored 8 newer members in sensor integration, vision processing, and feedback systems enhancing robot precision
  - Incorporated distance interpolation, auto-aim, autonomous decision-making, full-field localization and pose estimation using inverse kinematics and AprilTag IDs, increasing efficiency by 80%

## ACHIEVEMENTS

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- Datathon Second Place**
- Reta & HJ Haynes '46 University Scholarship**
- FIRST Robotics Championship - World Semifinalists**

## SKILLS

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- Languages:** Python, SQL, R, Java, C++, Javascript
- Technologies:** Tableau, Excel, Django, React