

# Daniel Palma

Software Engineer

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## EDUCATION

- **University of Central Florida** Orlando, Florida  
*Bachelor of Science in Computer Science, Minor in Mathematics*  
*Expected Graduation: 2026*  
*Relevant Coursework: Computer Science 1, Intro to Discrete Mathematical Structures, Writing for Technical Professionals, Statistical Methods 1*

## SKILLS SUMMARY

- **Languages:** C, Python, HTML, CSS, Javascript
- **Frameworks:** Node.js, React
- **Tools:** GIT, Netlify, Visual Studio Code, Fusion360, nTopology, Cura
- **Platforms:** Linux, MacOS, Windows
- **Languages:** Spanish, English

## PROJECTS

- **DealDetector**  
*A Python-based Discord bot that monitors and alerts users of price drops.* April 2022 - Present
  - **Price Monitoring:** Utilizes the requests and BeautifulSoup libraries to scrape the websites of online retailers to extract item titles and prices
  - **Discord Integration:** Leverages the discord.py library to connect to Discord's API and send alerts to users through designated channels.
  - **Customizable:** Enables users to monitor prices in real-time and sends alerts when they meet desired thresholds, enabling users to easily add, specify, and track items
- **FreeBoard**  
*Simple 60% keyboard designed using Fusion360 incorporating open-source PCB's* June 2021 - Present
  - **Ergonomics:** Utilized Fusion360 to create a 3D model of the keyboard, optimizing the layout and ergonomics for improved typing experience.
  - **Rapid Prototyping:** Sliced using Ultimaker Cura and 3D printed the parts using a Ender 5 plus, paying close attention to the tolerances, and topology.
  - **Budgeting:** Designed the keyboard to be as cost-effective as possible, using open-source PCB's and 3D printed parts.
  - **Open-Source Firmware:** Programmed the keyboard's firmware in C using open-source tools, allowing for customization of key mappings
- **Competition Design**  
*3D Printed enclosure to house prefabricated components and protect them from environmental factors* June 2022
  - **Strict Rules and Guidelines:** Adhered to the strict rules and guidelines of the competition, including the design requirements, and the design process.
  - **Design Consideration:** Considered the design requirements, including the weight, size, and material properties.
  - **Documentation:** Produced detailed documentation of the design process, including the design, manufacturing, and assembly process.
  - **Topology Optimization:** Utilized nTopology in order to optimize the design for strength and weight while meeting the design requirements.

## ORGANIZATIONS

- **Knight Hacks** August 2022 - Present  
*Back-End Developer*
- **Society of Hispanic Professional Engineers** August 2022 - Present  
*Member*
- **Google Student Developer Club** August 2022 - Present  
*Member*

## HONORS AND AWARDS

- National Additive Manufacturing Competition Finalist @ SkillsUSA NLSC - July 2022
- Top Engineering student @ Cypress Bay High School - June 2022
- AP Scholar with Distinction - May, 2021