Nicolas Sanchez

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Education

- **University of Central Florida** — Orlando, Florida
  Bachelors of Science - Computer Science; 84 completed credits — *January 2021 - Current*
  - **Major GPA**: 3.298
  - **Cumulative GPA**: 3.315

  Relevant subjects: *Data structures and algorithms, computer arithmetic, combinatorial and sequential logic design, TCP/IP, intrusion patterns, application vulnerabilities, and technical communication.*

Skills

- **Languages**: C, JavaScript, Python, HTML, CSS, Bash, LaTeX
- **Frameworks**: Jest
- **Tools**: Visual Studio Code, Git version-control, Emmet
- **Platforms**: Linux/Unix, Web, Windows, Virtualization
- **Soft Skills**: Leadership, Communication, Writing, Public Speaking, Time Management

Experience and Leadership

- **CyberPatriot XII** — Orlando, Florida
  Debian GNU/Linux Competitor — *2019 - 2020*
  - **Team Leader**: Given a set a virtual operating systems, I was tasked with finding and fixing cybersecurity vulnerabilities while maintaining critical services. As team leader, I organized practice and study sessions each week before an upcoming competition. The goal was to familiarize my teammates each with their assigned operating system and inform them of common vulnerabilities and intrusion patterns.

Projects

- **Guide Bot**: (work in progress) Guide is a discord bot that will provide information and even play certain games. I implemented the hikari Discord API wrapper to create a streamlined approach to developing the base system and adding new commands. Some commands include; info, voodoo, 8ball, coin, and oracle. I've also implemented the Wolfram Alpha API to give Guide the ability to answer factual queries.
  Tech: Python (June 2022)

- **PxlDraw**: A simple online pixel drawing tool. The user has the ability to pick any color with a color picker and actively adjust the canvas size efficiently using a slider. Using CSS Flexbox, the user can increase or decrease the number of pixels in a canvas without adjusting the size of the canvas itself.
  Tech: JavaScript, HTML, CSS. (June 2022)

- **Rock Paper Scissors**: Play rock paper scissors against a computer. Using JavaScript, I created dynamic UI elements for my web-page allowing the user to have a more fun and interactive experience when playing.
  Tech: JavaScript, HTML, CSS. (June 2022)

- **The FOOL landing page**: My submission for the Odin Project's landing page project. I used the CSS Flexbox layout model to structure the webpage and have it adjust itself based off the size of the users viewport. The content of the landing page is based off The FOOL album by Bladee and was designed to be used as the landing page for the album.
  Tech: HTML, CSS. (June 2022)

- **MySpim mini processor**: MySpim is the core part of a mini processor. Using C, MySpim is able to demonstrate functions of the MIPS processor as well as the principle actions of the datapath and control signals of a MIPS processor. MySpim would read in a file containing MIPS machine codes and simulate what the MIPS processor does cycle-by-cycle.
  Tech: C. (Nov 2021)

Honors and Awards

- State winner of 2019-2020 CyberPatriot competition.
- UCF President's Honor Roll for Spring 2022.