Nicolas Sanchez

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Education

- **University of Central Florida** — Orlando, Florida
  Bachelors of Science - Computer Science; 89 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, Java, JavaScript, Python, HTML, CSS, Bash, GDScript, LaTeX
- **Frameworks**: React.js, Redux toolkit, Jest
- **Tools**: Visual Studio Code, Git version-control, AWS, Emmet, Godot
- **Platforms**: Linux/Unix, Web, Windows, Virtualization
- **Soft Skills**: Leadership, Communication, Writing, Public Speaking, Time Management

Experience and Leadership

- **Amazon, Front-End Engineer Intern** — Seattle, Washington
  React.js, Redux toolkit, AWS — *May 2023 - August 2023*
  - Led the design and development of a user event tracking service and metrics dashboard for Amazon's Partner Portal, enhancing data-driven decision-making capabilities.
  - Worked collaboratively across all project phases, including requirement analysis, service design, integration with existing architectures, code development, testing, and successful implementation for shareholders.
  - Created additional and easy to use UI elements, improving the overall developer and customer experience.
  - Developed interactive dashboards and visualization services to empower shareholders with actionable insights.
  - Used agile methodologies to foster innovation, consistently brainstorming, prototyping, and iteratively improving project outcomes.
- **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

- **Untiled game project**: Currently leading the development of a 3D RPG game in Godot with PS1-style graphics, with elements inspired by Stardew Valley and Cruelty Squad. Collaborating with a diverse team to create a unique and interesting world while ensuring an engaging player experience.
  Tech: Godot, GDScript, Blender. (January 2023)

- **MyBookList**: An online book list app. Using JavaScript and the CSS grid technology, the user is able to add any book to their list by providing the information needed. The information is then stored in the "library" which contains the objects of each book. Future goals for this project are to allow the user to store data on the cloud.
  Tech: JavaScript, HTML, CSS. (July 2022)

- **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)

- **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 2022 and 2023.