

# NICHOLAS CATAPANO

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## EDUCATION

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### St. John's University

Expected Graduation December 2024

Bachelor's of Science in Cyber Security | GPA: 3.9

**Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Deep Learning, Secure Software Development, Information Security, Cyber Threat Detection, Data Security, Database Information Systems

## PROJECTS

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### KSS Randomizer – [github.com/nickcat03/KSS-Randomizer](https://github.com/nickcat03/KSS-Randomizer)

April 2024

- Shuffles contents in a video game by randomizing 100+ map locations and items, creating new and unique gameplay experiences.
- Implemented data serialization techniques to handle complex data structures, ensuring accurate modifications to game files by manipulating hex data and writing changes to over 300 specific memory locations.

### SummarieAI – [github.com/nickcat03/SummarieAI](https://github.com/nickcat03/SummarieAI)

March 2024

- Won 2nd place in the ACM x Headstarter 2024 Hackathon.
- Built in Python utilizing the Google Gemma AI language model and using Discord as a front-end.

### Kirby Speedrunning Wiki – [kirbyspeedrun.com/wiki/](https://kirbyspeedrun.com/wiki/)

August 2023

- A wiki site built from the MediaWiki framework and hosted through Apache.
- Lead developer responsible for back-end and CSS, hosted through Google Cloud.
- Team of 7 engineers, gained experience working with and managing a team.

### KSS RNG Tool – [github.com/nickcat03/KSS-RNG-Tool](https://github.com/nickcat03/KSS-RNG-Tool)

August 2022

A JavaScript web application that works in tandem with HTML and CSS.

- Simulates random number functions from a video game.
- Site first records user input, then outputs the result through a JavaScript program.

## EXPERIENCE

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### Maspeth Town Hall – Middle Village, NY

July 2023 – Present

*Technology Instructor*

- Instruct a diverse group of 150 students in coding programs through educational platforms such as Black Rocket and Mouse.
- Set up laptops, help with logging into various services, and troubleshoot technical issues.
- Provide support for each student by addressing their individual needs.

### New Jersey Courts

September 2023 – December 2023

*Information Security Intern*

- Collaborated with the IT department to manually harden and secure several CentOS installations through utilizing the CISCAT security application.
- Supported the deployment of antivirus and firewall systems by ensuring a smooth integration process with the rest of the team, resulting in a 21% increase in threat detection capabilities.

## TECHNICAL SKILLS

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**Languages:** JavaScript, Node.js, Python, SQL, Java, C#, HTML, CSS, Assembly

**Frameworks & DBs:** React, Bootstrap, PostgreSQL, Bootstrap

**Developer Tools:** Git, Nano, Apache, MediaWiki, Docker, Google Cloud, AWS, GitHub Pages, HxD, Babel