

# Bryant Villarreal

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## EDUCATION

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### Florida International University

Apr. 2023

*M.Sc., Computer Science*

*Miami, FL*

- Began Master's program as third year undergraduate student in 2020; expedited graduation by one year
- Taken courses include Secure Software Applications, Graduate Operating Systems, Mobile App Development

### Florida International University

May. 2022

*B.Sc., Computer Science*

*Miami, FL*

- 3.71 GPA; awarded Dean's List for three consecutive semesters and graduated Magna Cum Laude

## STUDENT ORGANIZATIONS

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### Google Student Developer Club

Jan. 2020

- Started discussion of algorithms and data structures such as binary search, reversing a linked list, and trees

### Upsilon Pi Epsilon Honor Society

Aug. 2019

- Mentored and collaborated with hundreds of active members; discussed current and future technologies

## COOPERATIVE EDUCATION EXPERIENCE

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### Capstone: NFTies Collective

Jun. 2021 – Dec. 2021

- Led team of 5 and applied agile methodologies; developed an NFT showcase platform with solidity, ETH, JS
- Communicated daily with team to monitor progress, introduce features, and predict needs for end users
- Administered and proposed weekly testing with team members to ensure production product was launched

## PROJECTS

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### Sorting Algorithm Visualizer

Mar. 2022

*Python: Pygame Module*

- Shuffled range of up to 100 rectangles drawn with pygame to demonstrate multiple algorithm sorting patterns
- Structured menu with 6 options involving resetting, ascending, descending, bubble sort, insertion sort, and start
- Implemented algorithms using functions to allow hundreds of algorithm types without modifying existing code

### Secure Password Generator

Feb. 2022

*Python: ArgParse Module*

- Developed Unix program to generate secure password with 4 options: digits, symbols, capital letters, and words
- Researched and adopted ArgParse module to parse 4 specific arguments for a password in Unix terminal
- Planned and explored edge-case scenarios, Applied default for no input. default case is a password of 4 words

### Marvel Twitter Bot

Feb. 2022

*Python: Tweepy Module*

- Deployed twitter bot; tweets a random Marvel Character name and image every 24 hours
- Imported tweepy module and studied how to compile and compose tweets through python
- Obtained API private keys and analyzed a list of thousands of marvel characters for potential use

## SKILLS

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- **Languages:** Python, Swift, PostgreSQL, C, HTML, CSS
- **Development:** Git, UI/UX principals, Unix, Agile and Scrum, Buffer Overflows, Format String Attacks

## WORK EXPERIENCE

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### 1 Hotel

Oct. 2020 – Dec. 2021

*In-Room-Dining Server*

*Miami Beach, FL*

- Guided and recommended food and beverage options to 50-65 guests daily based on ingredient preferences
- Evaluated need to connect with clients directly in Spanish or English; Resulted in increased liquor sales by 15%
- Collaborated and communicated with staff from other outlets to improve guest satisfaction by 23%