# Christian Díaz

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## EDUCATION

**Virginia Tech**                                                                                         Fall 2020 - Fall 2024
Bachelor of Science in Computer Science                                             GPA: 3.2/4.0 | *Blacksburg, VA*

## EXPERIENCE

**Full-Stack Software Engineering II Intern**                                            **June 2024 - Present**
*Walmart Global Tech* | Java, HTML/Bootstrap CSS/JavaScript                                *Bentonville, AR*

- Developed a Troubleshooter Support Tool for the Store Price Exeuction (SPE) team, optimizing on-call developers' query time by 99.3%
- Utilized Java Springboot to GET call Walmart API Services, allowing for seamless communication between the front-end and back-end
- Designed a simple, yet modern Walmart brand front-end using HTML, Bootstrap CSS, and JavaScript, displaying real-time data for the SPE team

**Undergraduate Teaching Assistant**                                                  **Aug 2023 - December 2023**
*Virginia Tech Department of Computer Science* | SwiftUI, SwiftData                        *Blacksburg, VA*

- Mentored 50 students with SwiftUI for mobile app development through 15+ SwiftData tutorial applications
- Leading students in a 4-month project, culminating in an innovative app solution for a real-world problem
- Conducting weekly office hours, aiding students in debugging during iOS development

**Information Technology Intern** | Python                                              **May 2023 - July 2023**
*HITT Contracting, Inc.*                                                                        *Falls Church, VA*

- Collaborated with diverse teams using a ticket system to resolve critical hardware and software issues
- Automated Excel files by merging data onto a main inventory spreadsheet, optimized manual merging time with Python's pandas library by 99%
- Handled the setup and operation of audio/visual technology at Co|Lab, ensured smooth running of all events

## PROJECTS

**PriorityQueue** | Python, SwiftUI, Firebase                                          **March 2023 - Present**

- Early-developed a Python Flask server for HTTP requests and JSON updates
- Collaborated in a team of 4 to develop a PriorityQueue iOS application, saving up 75% of request processing time
- Designed UI/UX elements, integrated Firebase from the Triangle Fraternity website for real-time data
- Planning to incorporate accurate wait times from the PriorityQueue into our application

**MKC Graphics Package v6.0.0** | Adobe, HTML/CSS, OBS, JavaScript                       **July 2021 - Present**

- Developed a graphics package for the 'MarioKartCentralWii' Twitch channel using Adobe tools
- Managed a team of 70, including commentators, stream-hosts and designers
- Led a team to produce 50+ professional broadcast graphics using version control practices
- Plan to automate Photoshop scripting using JavaScript/ExtendScript to expedite graphic creation time by 95%

**GreenThumb** | SwiftUI, Core Data, Perenual API                                       **April 2023 - May 2023**

- Developed a robust iOS application for garden management with a team of three using SwiftUI
- Implemented a secure user authentication system, reducing login times by up to 80%
- Utilized Core Data models for efficient storage and retrieval of plant and disease objects
- Combined features to track watering schedules, find plant diseases through an API, and manage plant life cycles

## TECHNICAL SKILLS

**Languages:** SwiftUI, Swift, Java, JavaScript, Python, C/Assembly, HTML/CSS
**Frameworks:** iOS, SwiftUI, Core Data, SwiftData, Firebase, REST API
**Developer Tools:** Xcode, Solidworks, GitHub, VSCode, Excel, OBS
**UI/UX Design & Graphics:** LucidChart (UML), Balsamiq Wireframes, Adobe Photoshop, Premiere Pro, After Effects
**Organizations:** President of The Bowling Club at Virginia Tech — Founding Brother at Triangle Fraternity
**Interests:** Competitve Bowling, Recreational Soccer, Audio/Video Production