Devin Stapleton

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Education

- *Bachelor of Science (Computer Science)*: The College of New Jersey(TCNJ) Ewing, NJ, May 2024
  Major GPA: 3.2
- Saint Josephs Regional High School Montvale, NJ (2016-2020)

Skills & Interests

- **Programming Languages**: C/C++, C#, Python, Java, MATLAB, HTML, CSS, LaTeX, Ruby
- **Skills**: Snapdragon Spaces, MRTK3, ASP.NET Fullstack, SQL, Linux, IT, Rails, Unity Engine, Microsoft Office
- **Concepts Learned**: Computer Graphics, Object-Oriented Programming, Data Structures, Computer Architecture, Boolean Logic, Algorithms, Linear Algebra

Experience

Virtual Reality NSF Research - The College of New Jersey (2023-present)
- Conducting research on EEG scans under Dr. Ferdous to identify brain patterns indicating VR-induced cybersickness and evaluate the effectiveness of mitigation strategies using **MATLAB**, **C#**, and **Unity**.

Software Engineer Internship - Verizon (2023)
- Modified a Verizon Innovative Learning **Unity** project to port the PC VR experience to multiple AR devices including HoloLense 2, Magic Leap 2, and the Thinkreality A3 using **C#**, **Snapdragon Spaces**, and **MRTK3**.

Virtual Reality Research - The College of New Jersey (2022)
- Developing a device that can work as both a mouse and virtual reality remote to allow a seamless flow between interacting with virtual displays and a virtual environment to optimize workflow on virtual reality displays in **Unity**

Publications

SIG CHI Workshop Paper - "*Children in virtual reality deserves more attention*" (2023)
- Wrote a literary review along with Dr. Sharif Mohammad Shahnewaz Ferdous, and Alex Quezada about the lack of cybersickness surveys used in studies with children in comparison to studies conducted with adults that involve participants using VR headsets.

Projects

Stock Growth Comparator App*(Personal)* (2022)
- Designed and developed a new stock trading strategy that current public charting tools are unable to graph
- Programmed in **Python** to create an app that takes two stock chart CSV files from Yahoo Finance API to create a new CSV file that is the difference in growth between the two stocks

Clash Royale Decker Counter*(Hackathon Group)* (2022)
- Designed a web app in **Python** that studies 400,000 matches from the card game Clash Royale as a dataset to create a deck that has the highest probability of beating any input deck

Custom Linux Shell*(class project)* (2022)
- Developed a custom Linux shell in **C** that allows a user to run complex terminal commands and provide more feedback

Virtual Reality FPS Game(*Personal*) (2022)
- Developed VR FPS game in **Unity Engine** using **C#**

Leadership Positions

- TCNJ Hackathon(*Executive Director*) - Manage budget and obtain funding for a major school event (2022-2023)
- Association for Computing Machinery(*Vice President*) - Maintain and ensure funding for club activities (2022-2023)