Matthew Schwarz

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Education

Vanderbilt University, Nashville, TN   **Expected May 2024**
- **GPA:** 3.83 / 4.00, **SAT:** 1570 (800 Math, 770 Verbal)
- **Majors:** Computer Science and Medicine, Health, & Society
- **Minor:** Economics
- **Relevant Coursework:** Program Design and Data Structures, Discrete Structures, Intermediate Software Design, Multivariable Calculus, Economic Statistics
- **Organizations:** Code Ignite, VandyHacks, Brazilian Jiu Jitsu

Charlotte Latin School, Charlotte, NC   **May 2020**
- **Unweighted GPA:** 4.00 / 4.00
- **Honors:** Cum Laude Society, National Spanish Honor Society, Headmaster's List
- **Activities:** Football, Track

Experience

Code Ignite, *Volunteer*, Vanderbilt University   **September 2021 - Present**
- Taught ~10 middle school students computer science and problem-solving principles
- Utilized web-based tools such as Scratch to facilitate engagement and learning
- Developed a Java curriculum for high school students

Morrison Family YMCA, *Camp Counselor*, Charlotte, NC   **June - August 2021**
- Organized fun and educational activities for kids aged 5 to 12
- Responsible for coordinating and safely engaging ~20 campers each day
- Promoted core values to campers including responsibility, respect, and inclusivity
- Facilitated teamwork and communication amongst 50+ counselors

Active Galactic Nuclei, *Research Assistant*, Vanderbilt University   **August 2020 - May 2021**
- Collaborated with four team members in studying supermassive black hole phenomena
- Provided weekly research reports and engaged in problem solving with team members
- Independently developed programs to analyze spectral data sets from quasar observations
- Generated spectral decomposition plots using PyQSOFit

Western Kentucky Orthopaedic Associates, Bowling Green, KY   **July 2019**
- Shadowed orthopedist through daily clinical and surgical tasks
- Observed three OR surgeries

Engineering Study Abroad, Germany   **June 2019**
- Examined the use of innovative technologies in advancing sustainability
- Explored the role of technology in emerging and established industries

Skills and Interests

Skills: Eagle Scout, SCUBA diver (75+ ocean dives), Conversational Spanish
Technical: Proficient in C++, Java, Python, Swift, Microsoft Office
Interests: Nutrition, Weightlifting, Travel