Ryan Nelson

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EDUCATION

B.S. in Computer Science, Minor in Psychology   GPA 3.72/4.0
The University of Texas at Dallas, Richardson, TX   Anticipated Graduation May 2024
Case Western Reserve University, Cleveland, OH

RESEARCH EXPERIENCE

Undergraduate Research Assistant   May 2023 - Present
Wig Neuroimaging Lab, Center for Vital Longevity, Dallas, TX
- Focused on brain development across the adult lifespan by studying the organization and function of brain networks.
- Completed projects experimenting with analysis of fMRI data using MATLAB
- Administered participant tests including sensory, motor, and cognitive testing.

Student Research Project Leader   January 2022 - May 2022
ACM Research, The University of Texas at Dallas, Richardson, TX
- Promoted to Team Leader after my performance in the fall semester project
- Designed a research project to process electrocardiogram signals and predict stress levels using neural networks ([GitHub](#))
- Recruited a team of underclassmen based on applications and interviews
- Presented research poster to a panel of professors at a symposium

Student Research Project Participant   September 2021 - December 2021
ACM Research, The University of Texas at Dallas, Richardson, TX
- Participated in student-lead research project to develop a machine learning program that predicts VR users' viewing behavior using clustering algorithms ([GitHub](#))
- Presented research poster to a panel of professors at a symposium

WORK EXPERIENCE

Recovery Advocate   March 2023 - Present
Phoenix House, Richardson, TX
- Recovery advocate at a residential facility for teens struggling with substance abuse
- Guided clients through daily routine, leading group sessions and redirecting inappropriate behavior
- Formed alliances with adolescents to encourage positivity, prevent bullying, and help them recognize their strengths

Daycare Teacher   June 2021 - August 2021
KinderCare, Richardson, TX
- Collaborated with partner to teach class of 20 - 25 preschoolers

- Engaged students with enthusiasm and daily activities

After School Teacher   August 2020 - May 2021
Champions After-School Program, Dallas, TX
- Taught classroom of 15-20 elementary school children daily lessons and activities
- Communicated with parents about their children's academic and behavioral progress

VOLUNTEER EXPERIENCE
Child Life Volunteer   February 2023 - August 2023
Children's Medical Center, Plano, TX
- Distributed toy donations to patients
- Cleaned and organized playrooms in the oncology department between appointments
- Provided company for children whose parents needed to leave the hospital

Hospice Volunteer   September 2022 - December 2022
Bristol Hospice, Dallas, TX
- Befriended an elderly woman in at home hospice care, visiting once a week, until her passing

Reading Tutor   September 2021 - March 2023
Reading Partners, Dallas, TX
- Tutored reading to underprivileged elementary school students in DISD twice a week for an estimated total of greater than 100 hour-long sessions

TECHNICAL SKILLS
Programming Languages: Java, Python, MATLAB, C++, MIPS
Applications: Microsoft Office (Word, Excel, PowerPoint, Outlook)