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| A qr code with a cat logo  Description automatically generatedA qr code with a logo  Description automatically generated**Megan Tran**  (813) 966-2368 | Tampa, FL | [megantntran@gmail.com](mailto:megantntran@gmail.com) | [Personal Website](https://megantranportfolio.netlify.app/) | | | |
| ***WORK EXPERIENCE*** | | | |
| **Research Assistant,** Templeton Research Group, Tampa, FL | | | May 2024 – Present |
| * Execute machine learning algorithms including PCA, Random Forest, and Shapley values to investigate relationships between features in concussion dataset. * Applied data cleaning and preprocessing methods using sci-kit learn for accurate data analysis with a graduate student. | | | |
| **Undergraduate Research Assistant,** van der Vaart Research Group, Tampa, FL | | | Sept. 2023 – May 2024 |
| * Implemented data analysis techniques on DNA simulations using Shell and Python. * Identified trends in 6 base-step parameters that caused uracil-DNA flipping from collected datasets. * Presented findings at weekly meetings and 2 academic conferences. | | | |
| **Chemistry and Calculus Tutor,** University of South Florida, Tampa, FL | | | Sept. 2022 – May 2024 |
| * Utilized new teaching strategies to help 20+ students understand general chemistry, organic chemistry, and calculus topics. * Collaborated with 5 other tutors in both clearly explaining concepts to students and providing a positive environment for learning. | | | |
| ***PROJECTS*** | | | |
| **Principal Component Analysis on Malaria Dataset**, USF Codeathon | | | Mar. 2023 |
| * Preprocessed malaria dataset with 3,346 severe malaria cases to then attempt PCA analysis for the determination of specific genotypes of malaria-infected patients. | | | |
| ***EDUCATION*** | | | |
| **University of South Florida** | | | |
| Pathway to Computing Graduate Certificate | | | Anticipated May 2025 |
| **University of South Florida** | | | |
| Bachelor of Science in Biomedical Sciences and Psychology, *summa cum laude* | | | May 2024 |
| Cumulative GPA: 3.94 | | | |
| Relevant Coursework: Differential Equations, Engineering Calculus 3, Physics 1 + Lab | | | |
| ***SKILLS*** | | | |
| Programming: | | Python, SQL, HTML, CSS, C++, R, Shell | |
| Technologies/Environments: | Visual Studio Code, Jupyter Notebook, Unix/Linux, Git Bash | | |
| ***LEADERSHIP AND AFFILIATIONS*** | | | |
| * **Member**, Toastmasters, South Tampa Chapter | | | Sept. 2022 – Present |
| * **Member,** Girls Who Code, USF | | | Feb. 2023 – Present |
| * **Treasurer**, Toastmasters, USF Chapter | | | Nov. 2021 – Aug. 2022 |
| ***CERTIFICATIONS AND AWARDS*** | | | |
| * LinkedIn Learning – Learning Python | | | Jan. 2023 - Present |
| * USF Honors Scholarship Recipient | | | Aug. 2022 |
| * USF Director’s Award Scholarship Recipient | | | Aug. 2020 |
| * Florida Bright Futures Scholarship Recipient | | | Aug. 2020 |