Megan Tran

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EDUCATION

University of South Florida

Pathway to Computing (Computer Science) Graduate Certificate — Anticipated May 2025

Bridge Program to USF's Master's in Computer Science

Bachelor of Science in Biomedical Sciences and Psychology, *summa cum laude* — May 2024

Cumulative GPA: 3.94

SKILLS

Software: Python, SQL, HTML, CSS, C/C++, R, C#, Shell, CSS, Javascript, Linux, Ubuntu, Git (Version Control)

Relevant Coursework: Discrete Structures Essentials, Data Structures Essentials, C Programming Essentials, Differential Equations, Engineering Calculus 1-3, Physics 1 + Lab, Statistics

PROGRAMMING PROJECTS

Trade Flow Analysis — Jul. 2024

- Formulated a logistic regression model analyzing financial, unstructured dataset of 5000+ datapoints to predict how influential each feature has on whether a contract was a win or loss using Python.
- Applied problem-solving skills via data preprocessing techniques, improving model's accuracy to 70%.
- Strengthened financial understanding of trade flows as well as risk management and regulation through 100% completion of the project.

Deep Learning Model - Malware Classifier — Jul. 2024

- Applied grid search to find the most optimal parameters, improving accuracy of deep learning model classifying whether a device has malware or not to 96%.
- Expanded my knowledge in cybersecurity concepts, processes, and tools as well as their technological applications.

Personal Website — Oct. 2023 - Present

- Designed and programmed my website using HTML, CSS, and Javascript for presenting online portfolio.
- Optimized responsivity for use on both mobile and desktop devices, allowing 10+ users to comfortably view and access my website.

EXPERIENCE

Machine Learning Research Assistant, Templeton Research Group, Tampa, FL — May 2024 - Present

- Leverage data cleaning techniques on highly unstructured dataset of 9000+ datapoints with Python to improve clustering analysis efficiency by 70%.
- Applied statistical analysis to determine significant differences between 7 treatment groups.
- Present data analytics in weekly meetings, fostering a collaborative environment among the 5-person team.

Undergraduate Molecular Dynamics Research Assistant, van der Vaart Research Group, Tampa, FL — Sept. 2023 – May 2024

- Automated shell scripts and used virtualization to efficiently gather information on 26 DNA simulations with 90% accuracy.
- Collaborated with 5 team members to identify trends from large datasets and troubleshoot debugging issues.
- Quickly adapted to new technologies and methodologies to carry out research plans.

LEADERSHIP AND AFFILIATIONS

- **Member**, Toastmasters, South Tampa Chapter — Sept. 2022 – Present
- **Member,** Girls Who Code, USF — Feb. 2023 – Present

CERTIFICATIONS AND AWARDS

- LinkedIn Learning – Learning Python — Jan. 2023 - Present
- USF Honors Scholarship Recipient — Aug. 2022