Raymond Wang

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Objective

Seeking a Robotics and Data Analytics internship to apply my experience in Python, C++, embedded systems, and machine learning toward developing intelligent robotic systems and data-driven engineering solutions.

Education

Georgia Institute of Technology | Atlanta, GA *June 2025 – Present*
Bachelor of Science in Computer Engineering, GPA 4.00 Expected Graduation, May 2028

The Ohio State University | Columbus, OH *August 2024 – May 2025*
Bachelor of Engineering in Computer Science and Engineering
Transfer with 68 Credit Hours, GPA 3.78

Skills

Programming & Development: scikit-learn, TensorFlow, NumPy, Pandas, Python, SQL, Java, C++, Git, MATLAB, HTML/CSS/JavaScript

Software & Systems: Software development, debugging, Fusion 360 (CAD), KiCad

AI & Data Analytics: Model development, data preprocessing, predictive modeling, data visualization (Matplotlib)

Healthcare & Clinical Data: Biomedical signal analysis (12-lead ECG), data integrity, clinical outcome correlation, privacy awareness

Experience

Machine Learning Research Assistant - *Miami University | Oxford, Ohio* *August 2022 – February 2023*

- Developed Python-based ML models using scikit-learn, NumPy, and Pandas to localize arrhythmias using 12-lead ECG clinical signal data, reducing surgical procedure time by up to two hours.
- Conducted data preprocessing and validation to ensure consistent model accuracy and reproducibility.
- Created data visualizations in Matplotlib and MATLAB to assess model performance and detect bias.
- Collaborated with biomedical engineers and clinicians, ensuring compliance with data handling standards.
- Published two peer-reviewed papers. DOI: 10.3389/fphys.2023.1183280 and 10.1016/j.cjca.2023.05.016

Web Development Instructor - *ScioVirtual | Online* *June 2025 – August 2025*

- Taught students HTML, CSS, and JavaScript in a virtual classroom environment.
- Designed interactive lessons emphasizing debugging and real-world applications.
- Improved course satisfaction score from 6.8 to 8.7 through clear instruction and responsive communication.

Technical Projects

Memory Forensics for Machine Learning Integrity *August 2025 – October 2025*

- Built and trained a convolutional neural network (CNN) in PyTorch from scratch using the CIFAR-10 dataset, implementing custom training and validation.
- Exported the model to TorchScript and integrated it with a C++ inference program
- Used GDB to inspect tensors and model organization in memory, documenting results

RoboJackets | RoboWrestling Electrical Member *September 2025 – Present*

- Designed and implemented C++ control systems integrating sensors for autonomous robotic movement and detection.
- Collaborated on embedded system design and integration using KiCad and Fusion 360 (CAD).
- Gained exposure to intelligent system behavior and mechanical-electrical integration relevant to physical security and robotics.
- Applied version control (Git) and team-based debugging to maintain robust hard-software interaction.

Leadership or Activities

Ohio Science Olympiad | Scrambler State Event Supervisor *August 2024 – May 2025*

- Led event design, testing, and timing validation for 150+ participants.
- Managed a 7-member volunteer team through effective communication and collaborative leadership.
- Ensured fair evaluation using precise data tracking and attention to detail in event measurements.