
ERIC XU

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EDUCATION

School: University of Maryland, College Park
Major: Bachelor of Science in Computer Science (Machine Learning Specialization)
Expected Graduation: September 2026 or May 2027
GPA: 3.97/4.0 GPA (CS Honor/Dean's List 2023/2024)

SKILLS

Programming Languages: Python, C++, Java
Artificial Intelligence: PyTorch, Scikit-learn, TensorFlow, SQL, Pandas
Tools: Git, Jupyter Notebook, Docker, Google Colab, Ubuntu Linux, Windows

WORK EXPERIENCE

Research Assistant 2022-2024
Department of Mechanical Engineering at the University of Maryland

- Trained an LSTM model to predict wind speed from multi-dimensional data with an error of ± 0.07 mph.
- Co-authored and presented the research paper, "Implementing a Hybrid Wind-Solar Power System for Electric Vehicle Charging Systems," at the 2024 ASME Conference with a team of 5.

Teaching Assistant August-December 2024
University of Maryland, College Park

- Taught and coordinated CPSS240: Science, Technology, and Society, a Service-Learning practicum.
- Guided 20+ students in developing and delivering robotics lessons for K-12 classrooms.
- Managed logistics for weekly off-campus teaching sessions and graded assignments.

Summer Research Intern May-August 2024
NSF Research Experiences for Undergraduates (Florida International University)

- Designed prompts to predict user profiles (location, interests) from web browsing history using OpenAI/Gemini APIs, achieving 80% prediction accuracy.
- Presented findings at the 2024 ACM International Conference on Information and Knowledge Management (CIKM) to an audience of 30+ researchers and industry professionals.

PROJECTS

Autonomous Submarine Developer 2023-Present
Robotics at Maryland

- Fine-tuned vision model (OpenCV) for real-time obstacle detection, improving accuracy 15%.
- Organized autonomous ROS2 programming with behavior trees in C++.

Live Data Visualization 2023-Present
Baja Terps Racing

- Developed a React website with real-time data visualization system for the Baja racing team, integrating sensor data from Arduino with a PostgreSQL database and Flask backend.
 - Collaborated with a team of 5 in a sprint/scrum environment with other cross disciplinary teams.
 - Placed 2nd in cost efficiency at Baja SAE Williamsport Competition 2024 (Top 16% of 100+ teams).
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