

Yudong Li

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AI/ML Engineer (MS in CS, Dec. 2025) with 5 years of experience designing, building, and deploying scalable machine learning solutions. Proven expertise in the full MLOps lifecycle, including CI/CD, Kubernetes, and cloud platforms. Experienced in leading 3-5 person teams and developing solutions with Deep Learning (Transformers, NLPs) and Reinforcement Learning.

Professional Experience

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|---|---------------------------------------|
| National Renewable Energy Laboratory <i>Research Engineer/Team Lead</i> | Oct 2019 – Present Golden, CO |
| <ul style="list-style-type: none">• Led the development and deployment of AI models leveraging Transformer architectures for fast material characterization, reducing testing time by 90% and securing \$2M in funding.• As project lead, designed and implemented deep Reinforcement Learning agents to optimize complex, dynamic industrial control systems. Attracted \$300K funding from industry partners.• Engineered and automated end-to-end MLOps pipelines on HPC clusters, integrating CI/CD and Kubernetes to reduce model training and deployment time by 70%. | |
| The University of Alabama High Performance Computing (UAHPC) group <i>Student Assistant (System Administrator)</i> | Aug 2018 – Dec 2018 Tuscaloosa, AL |
| <ul style="list-style-type: none">• Administered HPC clusters, including daily management, troubleshooting, and user training. | |

Education

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|---|-----------------------------------|
| Georgia Institute of Technology <i>Master of Science in Computer Science (GPA: 4.00 / 4.00)</i> | Expected Dec. 2025 Atlanta, GA |
| <ul style="list-style-type: none">• Relevant Coursework: Natural Language Processing, Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, Artificial Intelligence, Graduate Algorithms, Operating Systems, Information Security, Bayesian Statistics | |
| The University of Alabama <i>PhD in Materials Metallurgical Engineering (GPA: 3.92 / 4.00)</i> | May 2019 Tuscaloosa, AL |
| <ul style="list-style-type: none">• Relevant dissertation work: Developed simulation software in C and C++ for modeling of material chemical reaction processes. Applied machine learning techniques to predict material properties from experimental data. | |

Technical Skills

ML/AI: PyTorch, TensorFlow, HuggingFace, Sci-kit Learn, LLMs (GPT, BERT), Transformers, Generative AI, Reinforcement Learning (PPO, MAPPO, Actor-Critic), NLP, Computer Vision
MLOps/Cloud: MLOps, CI/CD, Kubernetes (Rancher), Docker, AWS, HPC Clusters (Linux)
Software: Python, C++, Flask, Vue.js, MongoDB, Qt, Git, SQL

Projects

Generative AI: Transformer for Information Retrieval & Language Generation: Implemented and trained a Transformer-based sequence-to-sequence model from scratch, demonstrating expertise in attention mechanisms and architectures foundational to modern LLMs.
Multi-Agent Reinforcement Learning (MAPPO): Implemented multi-agent Proximal Policy Optimization (MAPPO) algorithms in PyTorch for cooperative learning environments, relevant to AI agent creation.
Autonomous Driving Agent (AWS DeepRacer): Trained a multi-modal autonomous driving agent using Actor-Critic (PPO) models, integrating data from Stereo-Vision and LIDAR sensors.