

Ryan Lagasse

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EDUCATION

University of Connecticut College of Engineering

2025

Computer Science and Mathematics

- Coursework: *Computer Science, ML, Stats, Transformers, and research in Machine Learning, NLP, and LLMs*
- Activities: Co-founder of Quant Club, SWE with HuskyDevs, MLOps with AI club, Data Science Club

TECHNICAL SKILLS

- *Computer Languages:* Python, SQL, Java, C, C++, Rust, MatLab, HTML5/CSS3/JS, Typescript
- *Tools:* Git, PyTorch, TensorFlow, pandas, AWS, numpy, Scikit-learn, HaDooop, Kafka, Azure, PowerBI, Spark, AWS
- *Skills:* Algorithm and app development, machine learning, data science, data pipelines, Agile (Scrum/Kanban)
- Strong OOP skills, LLM and DL model finetuning, ML stack design, data analysis/querying/modeling

WORK EXPERIENCE

Co-Founder, Lead AI/ML Engineer, RapidResponse, Storrs, CT

2023

- Developed advanced simulation and autonomous systems with 97% simulation accuracy
- Designed an autonomous decision-making system using a zero-shot CNN to land 98% within 5 feet
- Leading a team of 10 engineers to iterate through prototyping, testing, and refinement of drone hardware

Co-Teacher of Introduction to Transformers CSE 4095, Uconn College of Engineering, Storrs, CT

2023-24

- Teaching my accredited Uconn course on transformers focusing on self-attention and finetuning models
- Developed and delivered weekly lectures on new transformer architectures on models like BERT, GPT-3, Mistral

Generative AI Researcher, Hubbell Incorporated, Remote

July 2023

- Lowered response errors of Gen-AI models by 46% with prompt injection and fine-tuning
- Trained LLMs on 10-Q and 10-K financial documents to build FMs and perform advanced financial analysis

Machine Learning Engineer, Hubbell Incorporated, Avon, CT

Summer 2023

- Built ML failure prediction models for testing for 7M+ Aclara electric meters with 99% accuracy
- Designed Teams bot using my models and Llamas to work through observations with the test engineers
- Tool is in use and saves hours of senior engineer's time and uses incremental learning to adapt to new updates

RESEARCH EXPERIENCE

UConn CSE Department, Deep Learning Researcher, Storrs, CT

2023

- Won first place in accuracy and fourth place overall at TinyML Design Contest at ICCAD
- Developing a cutting-edge CNN and deep learning algorithm for the classification of life-threatening ventricular arrhythmias (VAs), addressing the primary cause of Sudden Cardiac Death (SCD)
- Improved the accuracy of our model up to 98% accuracy and lowered the model latency significantly using C

PROJECTS & LEADERSHIP EXPERIENCE

Deep Learning Model and Natural Language Analysis of Stocks, Lead Developer

2023

- Designed deep learning model to analyze news positivity compared to stock pricing with 95+% accuracy
- Program uses finetuned Huggingface models to explain trends from the model to users with 87% reliability
- Achieved a 30% improvement in data retrieval and analysis by optimizing my SQL database

Vision Tracking Robot Developer

2022

- Developed a vision tracking protocol using CNNs, PID controls, and predictive motion algorithms to shoot balls into a goal with 82% accuracy
- Implemented deep learning techniques to improve shot accuracy achieving 96% accurate trajectory maps