Jerry Wang

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Education

Master of Science in Applied Machine Learning

Exp. May 2026

University of Maryland - College Park

College Park, MD

• Relevant Coursework: Computer Vision, ML Algorithms, Natural Language Processing, Robotics, Optimization

Bachelor of Science in Computer Science, Minor in Cognitive Science

May 2023

Rutgers University - New Brunswick

New Brunswick, NJ

Skills

Programming Languages: Python, C++, C, Java, MySQL (Proficient)

AI/ML Frameworks: PyTorch, Torchvision, TensorFlow, Scikit-learn, YOLO, OpenCV, Hugging Face, Gen Al

Cloud & Infrastructure: Docker, Kubernetes, AWS (S3, EC2, Lambda), Azure, GitHub MLOps & Tools: LLM, ClearML, CUDA, RESTful API, CI/CD, Linux, Unreal Engine

Projects

Autonomous Vehicle Simulator | Python, PyTorch, OpenCV, TorchVision, YOLO, Unreal Engine

Jun 2025 - Present

- Implemented multi-modal Sensor Fusion using computer vision (TorchVision) and LiDAR data to support autonomous vehicle decision-making
- Achieved real-time perception by 30 FPS by integrating YOLO (You Only Look Once) to CARLA Simulator's API for object detection and image segmentation
- Increased traffic component classification accuracy by 60% by removing ambiguity and training a CNN model for classifying traffic lights

NYC Ambulance Dispatch Simulation | PuLP, Osmnx, NetworkX, GeoPandas, Matplotlib

Mar 2025 - May 2025

- Reduced response times by 18% across 200+ daily dispatch events by developing a hybrid routing solution with Diikstra's algorithm and PuLP linear programming
- Enhanced ambulance dispatch efficiency by 75% by modeling 50K+ NYC map with real-time emergency simulation using GeoPandas and NetworkX
- Improved operational efficiency by building interactive Matplotlib simulations for live monitoring of emergency services performance metrics and enabling data-driven dispatch decisions

Experience

Software Engineer Intern

Oct 2020 - Aug 2021

Eslite Bookstore

Taipei. Taiwan

- Accelerated data retrieval times by 30% by streamlining an e-commerce platform with AWS through large-scale data cleaning of 100K+ dataset
- Reduced QA cycle time by 20% and post-release defects by 40% by building Python end-to-end test automation for checkout and product listings
- Prevented 40% of server outages by orchestrating incident response across engineering teams and integrating AWS **CloudWatch** for early detection

Software Engineer Intern

Jun 2019 - Aug 2019

Acer

Taipei, Taiwan

- Achieved 95% image classification accuracy on 100K+ datasets by designing, training, and deploying a CNN integrated with Azure pipelines for real-time detection
- Reduced AGV navigation errors by 35% by integrating a classification system on Raspberry Pi with real-time sensor streaming to **Azure IoT** for low-latency path optimization
- Drove company-wide adoption of edge ML practices by designing and leading an industrial AI deployment workshop for 30+ engineers

Certification

Building Toward Computer Use with Anthropic NVIDIA AI Infrastructure and Operations Fundamentals Aug 2025