Hyun Jonathan Moon

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EDUCATION

Cornell University Ithaca, NY
M.S. Computer Science *Expected grad. May 2023*

- Focus on Perception Systems for Large Scale Machine Learning and Robotics Application

Cornell University Ithaca, NY
B.A. in Computer Science; GPA: 3.624/4.0 *Expected grad. Dec 2021*

- Dean's List of Excellence of Scholarship
- AI/ML Coursework: Fairness and Dynamics of ML, Advanced ML, ML for Intelligent Systems, ML for Large Scale Systems, Mathematical Foundations of ML, Vision, Graphics, AI
- Robotics Coursework: Robot Manipualation, Formal Methods for Robotics, Autonomous Mobile Robots, Human-Robot Interaction, Foundations of Robotics

EXPERIENCE

Cyber-Agricultural Intelligence and Robotics (CAIR) Lab Cornell University
Perception Software Engineer *Since Sept. 2021*

- Developing a novel high-throughput plant phenotyping system using neural radiance fields (NeRF) and learning-based multiview stereo methods (MVSNet), trained on a custom ground-truth 3D plant model dataset, to achieve high quality 3D reconstructions

Amazon Web Services - Snow Family Amazon Inc.
Software Engineering Intern *Jun - Aug 2021*

Cornell Electric Vehicles Cornell University
Perception Software Engineer *Feb - May 2021*

- Accelerated inference time by 30% ($23 \rightarrow 32$ fps) PIXOR 3D object detection using pruning, low precision, and knowledge distillation trading little in accuracy

X, the Moonshot Factory (formerly Google [X]) Alphabet Inc.
Machine Learning Infrastructure Intern *Sept 2019 - Jan 2020, Jun - Aug 2020*

- Worked on 3D reconstruction from sparse point cloud data to create photorealistic renders of 3D models in artificial lighting for the purpose of data augmentation

College of Computing and Information Science Cornell University
Teaching Assistant *Since Jan 2020*

- Courses: ML for Intelligent Systems, Foundations of AI, Foundations of Robotics

AWARDS

Yunni and Maxine Pao Award

PastureX

- Won the award for social innovation in sustainable agriculture with our product PastureX, a pasture management platform for farmers to make sustainable precision grazing decisions
- Integrated satellite imagery and soil-level sensor data and images to optimize cattle carrying capacity and while minimizing the ecological risk of nitrogen runoff

SKILLS

Languages			**Libraries and Frameworks**
Python	C/C++	Java	PyTorch · AWS · ROS
Javascript/Typescript	OCaml		TensorFlow/Keras · OpenCV