

MAXIMUS PACE

(203) 451-8151 ◊ map438@cornell.edu ◊ <https://www.maximuspace.com>

EDUCATION

Cornell University

Master of Science in Computer Science

August, 2024 - May, 2026

Cornell University

Bachelor of Arts in Computer Science, Mathematics. *Summa cum laude*

September, 2020 - May, 2024

GPA: 4.10

Course work: Robot Learning, Machine Learning, Artificial Intelligence, Computer Vision, Compilers

PROFESSIONAL EXPERIENCE

Founder and CTO of Synopsis

August, 2022 - Present

- Developed front-end and back-end for automatically generating story-based data science slide decks to make corporate research communication engaging for over 15 users
- Researched business viability and conducted 80 customer discovery interviews to test hypotheses
- Raised \$15,000 in grants and pitched at Autodesk Gallery through eLab business accelerator

Software Engineer Intern at Guidewire Software

May, 2022 - August, 2022

- Built asset management tool to reveal abandoned curation assets, saving \$1200/month in AWS costs
- Expanded data curation API in Kotlin to expose data relationships, enabling accessibility for 30 developers
- Restructured customer data platform class setup to reduce data redundancy, creating a cleaner interface
- Created SQL query tests for join statements for better reliability in production

Mobile Developer Intern at rapStudy

May, 2021 - September, 2021

- Led development of song player for new React Native app for school-sponsored use by over 5000 students
- Created seamless synchronization system for aligning over 200 songs with their lyrics in real-time

ACADEMIC EXPERIENCE

PoRTaL Lab, Cornell University Professor Sanjiban Choudhury

March, 2023 - Present

- Wrote 3 papers for peer review at top machine learning and robotics conferences
- Trained classification and regression behavioral cloning policies to compare recovery trends and errors
- Enabled a mobile manipulator robot to pick up items with visuomotor policy over a bimodal action space
- Implemented diffusion learning and sequential learning policies using camera data and joint states to evaluate performance and contrast to simpler algorithms

Controls Software Engineer on Cornell Mars Rover

November, 2020 - June, 2024

- Trained segmentation model to identify keyboards and locations of keys to enable autonomous typing
- Overhauled classification model for rock images, improving validation accuracy from 30% to 70%
- Rewrote vision systems for ROS 2, integrating newer frameworks and enhancing cameras in competition
- Operated rover in University Rover Challenge 2023, adapting to controller malfunctions by manipulating drives through ROS command line and resolving camera failures ad hoc, ensuring continued performance

Head Teaching Assistant for Discrete Structures

Fall, 2021; Fall, 2022; Spring, 2023, Spring, 2024

Consultant for Functional Programming

Spring, 2022

- Rated average overall score of 4.94/5.0 from 17 students on anonymous feedback survey
- Led discussion sections of 30 students and held office hours assisting 30 students per week on problem sets
- Created homework and exam rubrics and led grading sessions of 14 TAs to grade 430 submissions

SKILLS & INTERESTS

Technical: Python (PyTorch, ROS, OpenCV, NumPy, Matplotlib), Java, OCaml, JavaScript

Interests: Golf, entrepreneurship, NYT crossword puzzles, travel, poker, skiing, gaming