BENJAMIN YAM

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EDUCATION

Cornell University, College of Engineering,   Ithaca, NY
<u>Master of Engineering</u>, Computer Science   Expected Dec 2024   GPA: -
<u>Bachelor of Science</u>, Major in Computer Science, Minor in Mathematics   Aug 2021 - May 2024   GPA: 3.5

Relevant Courses: Computer Vision, Robot Learning, Reinforcement Learning, Machine Learning, Computer Graphics, Database Systems, Artificial Intelligence, Functional Programming, Operating Systems, Computer System Organization, Probability and Statistics, Data Structure, Discrete Structure, Python
Awards: Dean's Honor List, National Honors Society, NYS Academic Excellence Scholarship, AP Scholar with Distinction, Hope Scholarship Foundation Award

PROJECTS

Snack Searching Web App
Used SVD and Cosine Similarity to recommend snacks to user from a dataset of snacks (web scraped from Yamibuy and Amazon)
AI Blackjack Game
Trained AI players on RL alg and deep network to learn card counting with a win rate of 52% (beating average Blackjack win rate)
Autonomous Driving
Trained car to drive on a mountain landscape on Microsoft Airsim environment using Actor Critics PPO and DFO on images.
Man sitting on the Moon model
Built Ray Tracer to render a human model on the moon terrain from NASA.

ENGINEERING EXPERIENCE

Cup Robotics Project Team   Ithaca, NY
Team Member   Oct 2021-Feb 2023
- Collaborate with 70 team members in the design, manufacture, and assembling of robotics-oriented projects (Chatbot integrated with ChatGPT, GUI using React.js, Overhead Vision System with Apriltag)
- Design GUI that let users access the vision system, Chatbot, Physical blocky, and connect robots. Design Chatbot GUI that uses speech recognition and stores context using React.js and Python.
- Decrease Overhead Vision System's x, y, and angle offsets by 80% and improve the algorithm for locating Apriltag

United Building Sciences Limited   Manhattan, NY
Quality Control Inspector Intern   April-Jun. 2021
- Analyze building blueprints, and check fire control, ventilation, and water sprinkler systems within 4 buildings in Midtown and Queens to ensure structural safety

LEADERSHIP

Cornell University   Ithaca, NY
Resident Advisor   Jan 2023-Present
- Led initiatives that celebrated cultural diversity, such as heritage month events, attended by an average of 30 residents
- Increased resident engagement by 50% after my first year through innovative programming and activities.
- Organized and led 4 events per semester, fostering connections among 160 residents and promoting a sense of belonging

JOB EXPERIENCE

Hyatt Place   Flushing, NY
Gallery Host Intern   Jun 2023-Aug 2023
- Assisted an average of 350 visitors per day with inquiries and provided information about the hotel.
- Assisted in maintaining accurate visitor logs and data entry, contributing to improved record-keeping efficiency.
- Successfully managed multiple tasks, such as attending to visitors, handling phone inquiries, managing kitchen staff, and assisting with event preparation, while consistently meeting deadlines

Math 1920 AEW Facilitator   Ithaca, NY
Facilitator   Aug 2022-May 2023
- Review and prepare Multivariable Calculus materials weekly for a class of 22 students per semester.
- Increase the median of the student body enrolled in AEW session scores a median above the general class by 10%

United Postal Service   Bayside, NY
Sales Associate   Jun - Aug. 2021
- Managed the CMS system in order to process 150 shipments from Amazon returns to shipping of high-values
- Organized 300 customers' mails/packages daily into respective mailboxes to ensure customer satisfaction.

SPECIALIZED SKILLS

Languages: Cantonese (Fluent), English (Fluent), Mandarin (Proficient), Korean (Intermediate)
Programming Languages: Python, OCaml, Java, C, HTML, CSS, Javascript, ReactJS, TypeScript
Tools: Git, XCode, AutoCAD, Inventor, Eclipse, Visual Studio Code, Jupyter, ClimpChamp, Blender