RAGHAV RAJ MITTAL

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EDUCATION

Georgia Institute of Technology, *Atlanta, GA*　　　　　　　　　　　　　　　　　　　　　Jan 2019 - *May 2020*
Master of Science in Computer Science, Concentration in Machine Learning　　　　　　　**GPA: 4.0/4.0**

Georgia Institute of Technology, *Atlanta, GA*　　　　　　　　　　　　　　　　　　　　*Aug 2015 - Dec 2018*
Bachelor of Science in Computer, Concentrations in Artificial Intelligence & Information-Internetworks　**GPA: 3.8/4.0**

Universitat Politècnica de Catalunya, *Barcelona, Spain*　　　　　　　　　　　　　　　*May 2017 – Jul 2017*
Computer Science Study Abroad

EXPERIENCE

Bloomberg LP　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**New York City, NY**
Software Engineering Intern　　　　　　　　　　　　　　　　　　　　　　　　　*May 2019 – July 2019*
- Built a new Bloomberg Terminal function for the Access Control team to interface with the internal process orchestration engine, enable easy diagnosis of the latest privileging requests, and facilitate quick debugging of failed workflows
- Used Python to create the service, an internal SQL wrapper to access the database, and JavaScript to build the UI screens

Goldman Sachs　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Dallas, TX**
Technology Summer Analyst　　　　　　　　　　　　　　　　　　　　　　　　　　*Jun 2018 – Aug 2018*
- Worked in an Agile environment to create a persistence service that allows agents to store customer information securely
- Used the Java Spring framework to create RESTful service APIs, MongoDB to store the encrypted notes, and React-Redux to create the front-end components and make Ajax calls to the service
- Placed 1st at the 'Americas Intern Engineering Challenge' held amongst all GS interns in the North America region

RESEARCH / TEACHING

Computational Perception Laboratory　　　　　　　　　　　　　　　　　　　　　　**Atlanta, GA**
Graduate Researcher | Prof. Jim Rehg　　　　　　　　　　　　　　　　　　　　　*Jan 2019 – Present*
- Designing supervised machine learning models to improve an RFID-guided multi-camera surveillance and tracking system to help animal behavior researchers infer a target animal's social group structure and specific social behavior
- Experimenting with models that directly map target locations to the correct PTZ camera pose parameters

Intro to Robotics and Perception (CS 3630)　　　　　　　　　　　　　　　　　　　　**Atlanta, GA**
Head Teaching Assistant (Fall 2019), Teaching Assistant (Fall 2018, Spring 2019)　　　　　*Aug 2018 – Present*
- Co-leading a team of 11 TAs and assisting 200+ students with the course and content, including topics such as image processing, object recognition, pose estimation, particle filters, kalman filters, path planning, and control systems

College of Computing　　　　　　　　　　　　　　　　　　　　　　　　　　　　**Atlanta, GA**
Computer Science Tutor　　　　　　　　　　　　　　　　　　　　　　　　　　　*Sep 2017 – May 2018*
- Conducted weekly 1-to-1 tutoring sessions on Data Structures, Algorithms, Systems, Networks, Python, and C

PROJECTS

ExpressMusic | Ponce City Market Code-athlon　　　　　　　　　　　　　　　　　　　*Sep 2018*
Python, Flask, OpenCV, JavaScript, YouTube APIs
- Used computer vision to identify people in real time, detect their facial expressions, and play songs matching their mood

Follow-Focus | Best Hardware Hack @ Georgia Tech GAMO Hackathon　　　　　　　　　*Mar 2018*
Python, OpenCV, Arduino, GoPro, Speech-to-Text APIs
- Used OpenCV body detection and Grove Arduino modules to rotate a GoPro camera and follow the user's movement

Obstacle-Avoidance Car | Georgia Tech BuildGT Hackathon　　　　　　　　　　　　　　*Mar 2018*
Arduino, Raspberry Pi
- 3D printed and wood-crafted a battery-powered car that uses an ultra-sonic sensor to avoid obstacles

SKILLS

Technical: Python, Java, TensorFlow, PyTorch, OpenCV, Scikit-Image, Scikit-Learn, Numpy C, SQL, React, Redux
Coursework: Computer Vision, Deep Learning, Artificial Intelligence, Machine Learning, Robotics and Perception, Natural Language Processing, Information Security, Databases, UI Design, Computer Architecture, Networking, Data Structures, Algorithms, Systems and Networks, Complexity, Automata, Statistics, Game Theory, STS, Ethics
Interests: Soccer, Racquetball, Traveling, Videography