

# RAGHAV RAJ MITTAL

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## EDUCATION

<b>Georgia Institute of Technology, Atlanta, GA</b> Master of Science in Computer Science, Concentration in Machine Learning	Jan 2019 - May 2020 <b>GPA: 4.0/4.0</b>
<b>Georgia Institute of Technology, Atlanta, GA</b> Bachelor of Science in Computer Science, Concentrations in Artificial Intelligence & Information-Inter networks	Aug 2015 - Dec 2018 <b>GPA: 3.8/4.0</b>
<b>Universitat Politècnica de Catalunya, Barcelona, Spain</b> Computer Science Study Abroad	May 2017 – Jul 2017

## EXPERIENCE

<b>Bloomberg LP</b> <i>Software Engineering Intern</i>	<b>New York City, NY</b> May 2019 – July 2019
<ul style="list-style-type: none"><li>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</li><li>Used Python to create the service, an internal SQL wrapper to access the database, and JavaScript to build the UI screens</li></ul>	
<b>Goldman Sachs</b> <i>Technology Summer Analyst</i>	<b>Dallas, TX</b> Jun 2018 – Aug 2018
<ul style="list-style-type: none"><li>Worked in an Agile environment to create a persistence service that allows agents to store customer information securely</li><li>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</li><li>Placed 1<sup>st</sup> at the ‘Americas Intern Engineering Challenge’ held amongst all GS interns in the North America region</li></ul>	

## RESEARCH / TEACHING

<b>Computational Perception Laboratory</b> <i>Graduate Researcher   Prof. Jim Rehg</i>	<b>Atlanta, GA</b> Jan 2019 – Present
<ul style="list-style-type: none"><li>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</li><li>Experimenting with models that directly map target locations to the correct PTZ camera pose parameters</li></ul>	
<b>Intro to Robotics and Perception (CS 3630)</b> <i>Head Teaching Assistant (Fall 2019), Teaching Assistant (Fall 2018, Spring 2019)</i>	<b>Atlanta, GA</b> Aug 2018 – Present
<ul style="list-style-type: none"><li>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</li></ul>	
<b>College of Computing</b> <i>Computer Science Tutor</i>	<b>Atlanta, GA</b> Sep 2017 – May 2018
<ul style="list-style-type: none"><li>Conducted weekly 1-to-1 tutoring sessions on Data Structures, Algorithms, Systems, Networks, Python, and C</li></ul>	

## PROJECTS

<b>ExpressMusic   Ponce City Market Code-athlon</b> <i>Python, Flask, OpenCV, JavaScript, YouTube APIs</i>	Sep 2018
<ul style="list-style-type: none"><li>Used computer vision to identify people in real time, detect their facial expressions, and play songs matching their mood</li></ul>	
<b>Follow-Focus   Best Hardware Hack @ Georgia Tech GAMO Hackathon</b> <i>Python, OpenCV, Arduino, GoPro, Speech-to-Text APIs</i>	Mar 2018
<ul style="list-style-type: none"><li>Used OpenCV body detection and Grove Arduino modules to rotate a GoPro camera and follow the user’s movement</li></ul>	
<b>Obstacle-Avoidance Car   Georgia Tech BuildGT Hackathon</b> <i>Arduino, Raspberry Pi</i>	Mar 2018
<ul style="list-style-type: none"><li>3D printed and wood-crafted a battery-powered car that uses an ultra-sonic sensor to avoid obstacles</li></ul>	

## SKILLS

<b>Technical:</b>	Python, Java, TensorFlow, PyTorch, OpenCV, Scikit-Image, Scikit-Learn, Numpy C, SQL, React, Redux
<b>Coursework:</b>	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
<b>Interests:</b>	Soccer, Racquetball, Traveling, Videography