Atulya Ravishankar

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`Robotics` `Computer Vision` `Machine Learning` `Artificial Intelligence` `NLP` `Software Engineering`

EDUCATION

Carnegie Mellon University (CMU)
M.S. in Robotic Systems Development
School of Computer Science | GPA 4.02 / 4.33
Pittsburgh, PA, USA | Dec 2019

Carnegie Mellon University (CMU)
B.S. in Electrical & Computer Engineering with an Additional Major in Robotics
Carnegie Institute of Technology | GPA 3.83 / 4.00
Pittsburgh, PA, USA | May 2018
Graduated with University and College Honors

PROJECTS

Autonomous Beach Cleaner | 2018 – Current
Master's Project | Carnegie Mellon University
Developed an object detection pipeline in Python for a multi-agent beach cleanup system. Also assisted in debugging a path planner in ROS.

Weather Classification for Vehicles | 2019
Course Project | Carnegie Mellon University
Wrote a weather classification pipeline in MATLAB that classified dashcam footage as sunny, rainy or foggy weather with over 90% accuracy.

Robotic Ball Boy | 2018
Capstone Project | Carnegie Mellon University
Built a tennis ball boy robot on a team of 3. Wrote a computer vision pipeline in C++ and assisted with the path planner, which used ROS.

Interactive Carnival Game | 2018
Recreational Project | Carnegie Mellon University
Architected and built a cyberphysical carnival game. Used force sensors, Arduino UNOs and DMX lights to create an immersive experience.

Intelligent Q&A Agent | 2018
Course Project | Carnegie Mellon University
Engineered a system in Python that performed Q&A on Wikipedia articles using NLP techniques like parsers, language models and NER.

EXPERIENCE

Microsoft, Software Engineer Intern
Media Understanding | May 2019 – Aug 2019
Built a mobile robot that automates specific workflows in a spatial understanding system such as camera calibration and 3D object localization.

Microsoft, Software Engineer Intern
Remix3D | May – Aug 2018
Implemented an experiment on Remix3D.com using WebVR and BabylonJS that improves the usability of the VR model viewing experience.

Microsoft, Software Engineer Intern
Office Performance | May – Aug 2017
Created a real-time power monitoring Windows application in C# that enables developers to improve the power performance of their code.

Comcast, Software Engineer Intern
Transactional Data Services | June – Aug 2016
Built a website using the MEAN stack that tracked server performance and jobs in real-time, improving the team's productivity and efficiency.

LEADERSHIP

CMU Student Board Appointed Member
Academic Review Board & University Disciplinary Committee | 2016 – Current
Deliberated cases of alleged violations of community standards or academic integrity.

Teaching Assistant, Intro to Robotics
Carnegie Mellon University | 2017 – 2019
Designed and oversaw lab projects for a class of 60 students. Mentored students and assisted with office hours, homework and exams.

CMU Spring Carnival Project Leader
Technology Subcommittee | 2016 – 2018
Led a team of 10 engineers in the creation of three interactive carnival games that attracted over 1000 visitors over the course of three days.

SKILLS
`Python` `C` `C#` `MATLAB` `JavaScript` `Project Management` `Git` `Agile/Scrum`