Pranav Kumar

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Education

May 2021 (Anticipated)
QPA: 4.00
Dean's List (Fall 2017, Spring 2018)

BS in Computer Science, Carnegie Mellon University
Relevant Coursework:
15-251 - Great Theoretical Ideas in Computer Science,
15-150 - Principles of Funtional Programming,
15-122 - Principles of Imperative Programming,
15-241 - Matrices and Linear Transformations

Work Experience

June - August 2018 **Intern at Petuum Inc**
- Will work at Petuum Inc in Pittsburgh over the summer

Spring 2018 **Teaching Assistant** for 15-122: Principles of Imperative Computation
- Taught labs, graded homeworks and hosted office hours for students

May 2016 **Intern at Cerner Corporation**
- Synced client and server data with PHP and JavaScript for Smart Health, a cross-platform mobile application to track adolescent health
- Laid foundation for internationalization of the entire application using JSON to store key words for easy translation between languages

Projects and Extracurriculars

September 2017 - Present **RoboBuggy**
- RoboBuggy is an autonomous competitor in the buggy races at CMU
- Member of infrastructure development team and software representative
- Use ROS, C++, and Python to build infrastructure to drive the buggy

September 2017 **Ugly Duckling** at HackCMU 2017
- Won Google's "Best Use of Machine Learning" Award, $1000 cash prize at CMU 50th anniversary celebration
- Created an autonomous, deep-learning based robotic camera operator to follow a person using facial recognition

July 2016 **Multi-robot pathfinding** at Stanford University
- Created a multi-robot pathfinding optimization program at Stanford Pre-Collegiate Summer Institutes
- Implemented in Python using a coupled approach and BFS, DFS, Dijkstra's, and A* algorithms

Technical Skills

Languages: Python, C, Java, JavaScript, SML
Applications/Technologies: Git, Vim, ROS

Honors and Achievements

Best Use of Machine Learning award by Google at HackCMU 2017
Top in Country and **Top 5 in World** in Cambridge AS and A level Computer Science