

Pranav Kumar

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EDUCATION

MAY 2021 **BS in Computer Science, Carnegie Mellon University**
(Anticipated) RELEVANT COURSEWORK:
Principles of Imperative Programming, Mathematical Foundations for Computer Science

WORK EXPERIENCE

SPRING 2018 **Teaching Assistant** for 15-122 Principles of Imperative Computation
• Future TA for 15-122

MAY 2016 **Intern at Cerner Corporation**
• Server-side and client-side data syncing (in PHP and JavaScript) for Project Smart Health, a cross-platform mobile application
• Laid foundation for internationalization of the entire application using JSON

2014 - 2015 **Student Developer at Mediawiki Foundation**
• Worked on open source applications such as Wikipedia, Mediawiki, etc.
• Learned Git, PHP, and the practice of code review in the process

PROJECTS AND EXTRACURRICULARS

SEPTEMBER 2017 **RoboBuggy**
- PRESENT
• RoboBuggy is an autonomous vehicle which is a competitor in the annual 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
Applications Git, Vim
Technologies 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