# 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