

Pranav Kumar

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EDUCATION

MAY 2021 (Anticipated) **BS in Computer Science, Carnegie Mellon University**
RELEVANT COURSEWORK:
QPA: 4.00 **15-213*** - Introduction to Computer Systems
Dean's List **15-251** - Great Theoretical Ideas in Computer Science
(Fall 2017, Spring 2018) **15-210*** - Parallel and Sequential Data Structures and Algorithms
15-241 - Matrices and Linear Transformations

WORK EXPERIENCE

JUNE - AUGUST 2018 **Intern at Petuum Inc**

- Developed a backend datapull API for ML engineers to gather data - improved efficiency by a factor of 15
- Integrated real-time streaming data with ML model

SPRING 2018, FALL 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

PROJECTS AND EXTRACURRICULARS

SEPT 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

- Created an autonomous, deep-learning based robotic camera operator to follow a person using facial recognition
- Won Google's "Best Use of Machine Learning" Award, \$1000 cash prize at CMU 50th anniversary celebration, as well as funding from CMU Board of Trustees

JULY 2016 **Multi-robot pathfinding** at Stanford University

- Created a multi-robot pathfinding optimization program at Stanford Pre-Collegiate Summer Institutes - implemented using a coupled approach

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, SML

Applications/Technologies: Git, Vim, ROS, Django, UNIX, Docker, MySQL

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