

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 **Software Engineering Intern at Petuum Inc**

- Developed a backend datapull API with MySQL and Python for ML engineers to gather data
- Improved efficiency by a factor of 15 using multithreading
- 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 SmartHealth
- Laid foundation for internationalization using JSON

PROJECTS AND EXTRACURRICULARS

SEPT 2018 **No Duckling is Ugly** - PennApps 2018

- An IoT based anti-bullying system developed at PennApps 2018
- Used sentiment analysis, speech to text and NLP to detect bullying
- Best IoT and Best Education Hack at PennApps 2018

AUG 2017 - SEPT 2018 **RoboBuggy**

- RoboBuggy is an autonomous competitor in the buggy races at CMU
- Use ROS, C++, and Python to build infrastructure to drive the buggy

SEPT 2017 **Ugly Duckling** - HackCMU 2017

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

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, SML

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

HONORS AND ACHIEVEMENTS

Best IoT Hack, Best Education Hack awards at PennApps 2018

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