

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 using Apache Kafka

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, REST, UNIX, Docker, MySQL, Apache Kafka, Selenium

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