

Pranav Kumar

PHONE: 412-726-1606

EMAIL: pmkumar@cmu.edu

EDUCATION

BS in Computer Science, Carnegie Mellon University

MAY 2021 (Anticipated)

RELEVANT COURSEWORK:

15-410* - Operating System Design and Implementation

QPA: 4.00/4.00

15-411 - Compiler Design

Dean's List

15-213 - Introduction to Computer Systems

(All semesters)

15-210 - Parallel and Sequential Data Structures and Algorithms

WORK EXPERIENCE

Production Engineering Intern | Facebook

MAY - AUGUST 2019

- Developed a build automation service for regression detection and parallel building of binaries
- Enabled multiple asynchronous builds, improving firefighting efficiency by **more than 10x**

Software Engineering Intern | Petuum Inc

JUNE - AUGUST 2018

- Developed a backend datapull API using MariaDB and Django for ML engineers to use while training models
- Used Apache Kafka to integrate real-time streaming data with ML model
- Improved model inference runtime from 30+ minutes to 90 seconds (**20 times speedup**)

Lead Teaching Assistant | 15-122: Principles of Imperative Computation

SPRING 2018 - PRESENT

- Taught labs, graded homeworks and hosted office hours for students

PROJECTS AND EXTRACURRICULARS

No Duckling is Ugly | PennApps 2018

SEPT 2018

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

Ugly Duckling | HackCMU 2017

SEPT 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: C, Python, OCaml, Java, JavaScript, SML, x86

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

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