□ (+1) 412-726-1606 | pmkumar@cmu.edu | pranavmk98 | pranav-k

Pittsburgh, Pennsylvania

Aug. 2017 - May 2021

Jun. 2018 - Aug. 2018

Jan. 2018 - Present

Pittsburgh, Pennsylvania

Philadelphia, Pennsylvania

Aug. 2017 - Sep. 2018

Sep. 2017

## **Education**

### **Carnegie Mellon University**

B.S. IN COMPUTER SCIENCE - INTENDED MINOR IN MACHINE LEARNING (QPA: 4.00)

- Dean's List Fall '17, Spring '18, Fall '18
- **Relevant Coursework:** 
  - 15-213: Introduction to Computer Systems
  - 10-315\* Introduction to Machine Learning
  - 15-210: Parallel and Sequential Data Structures and Algorithms

# Work Experience \_\_\_\_\_

Petuum Inc. Pittsburgh, Pennsylvania

SOFTWARE ENGINEERING INTERN

- · 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)

#### **Carnegie Mellon University**

TEACHING ASSISTANT - 15-122 (PRINCIPLES OF IMPERATIVE PROGRAMMING)

- Teach labs and recitations for the introductory programming class at CMU (450+ students)
- · Grade homework and host office hours for students

Cerner Corp. Bangalore, India

**ENGINEERING INTERN** May 2016

- Synced client and server data using PHP and JavaScript for Project SmartHealth
- · Laid foundation for internationalization using JSON

# **Projects & Extracurriculars**

# No Duckling Is Ugly (PennApps '18)

CO-DEVELOPER Sep. 2018

- Developed an IoT based anti-bullying system using sentiment analysis and NLP at PennApps 2018
- Built from scratch on a Qualcomm Dragonboard 410c used MongoDB, Perspective, and various REST APIs
- · Awarded the Best IoT Hack and Best Education Hack

RoboBuggy Pittsburgh, Pennsylvania

SOFTWARE CO-LEAD

- RoboBuggy is an autonomous vehicle competing in the annual buggy races at CMU
- · In charge of setting up the ROS and logging systems during rolls and firefighting software failures in the buggy
- Used ROS, C++, and Python to build infrastructure to drive the buggy

#### Ugly Duckling (HackCMU '17) Pittsburgh, Pennsylvania

CO-DEVELOPER

· An autonomous, deep-learning based robotic camera operator designed to follow and record a person using facial recognition

- Awarded Best Use of Machine Learning by Google
- · Awarded \$1000 cash prize at CMU 50th anniversary celebration, as well as funding from CMU Board of Trustees

## Honors & Awards

2018	Best Education Hack, PennApps	Philadelphia
2018	Best IoT Hack, PennApps	Philadelphia
2017	Best Use of Machine Learning, HackCMU	Pittsburgh
2017	Top 5 in World, Cambridge International A Level Computer Science	Bangalore

# Technical Skills

**Programming and Scripting:** C · Python · Java · JavaScript · SML · x86 · HTML/CSS

**Technologies and Applications:** Git · Vim · ROS · Django · REST · UNIX · Docker · MySQL · Apache Kafka

FEBRUARY 4, 2019 PRANAV KUMAR · RÉSUMÉ