

Pranav Kumar

FULL STACK DEVELOPER · HACKER

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Education

Carnegie Mellon University

B.S. IN COMPUTER SCIENCE (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

Pittsburgh, Pennsylvania

Aug. 2017 - Exp. May 2021

Work Experience

Petuum Inc.

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)

Pittsburgh, Pennsylvania

Jun. 2018 - Aug. 2018

Carnegie Mellon University

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

- Teach labs and recitations for the introductory programming class at CMU
- Grade homework and host office hours for students

Pittsburgh, Pennsylvania

Jan. 2018 - Present

Cerner Corp.

ENGINEERING INTERN

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

Bangalore, India

May 2016

Projects & Extracurriculars

No Duckling Is Ugly (PennApps '18)

CO-DEVELOPER

- 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

Philadelphia, Pennsylvania

Sep. 2018

RoboBuggy

SOFTWARE CO-LEAD

- RoboBuggy is an autonomous vehicle competing in the annual buggy races at CMU
- In charge of setting up the software system and the goto person for software failures in the buggy
- Used ROS, C++, and Python to build infrastructure to drive the buggy

Pittsburgh, Pennsylvania

Aug. 2017 - Sep. 2018

Ugly Duckling (HackCMU '17)

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

Pittsburgh, Pennsylvania

Sep. 2017

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