Pranav Kumar

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Citizenship: USA

Education

B.S. in Computer Science, Carnegie Mellon University	Dec 2020 (Anticipated)
Relevant Coursework:	**QPA: 4.00/4.00**
15-410 - Operating System Design and Implementation	Dean's List
15-411 - Compiler Design	(6/6 semesters)
15-330 - Introduction to Computer Security	
15-213 - Introduction to Computer Systems	

Work Experience

Citadel | Software Engineering Intern — June - August 2020

- Designed and implemented business-critical infrastructure (with **C-suite visibility**) to monitor and report the quality of massive quantities of data in real-time

Facebook | Production Engineering Intern — May - August 2019

- Developed a build automation service for regression detection and parallel binary builds
- Improved firefighting efficiency during downtimes by **more than 10x**

Petuum Inc | Software Engineering Intern — June - August 2018

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

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/C++, Python, OCaml, Rust, Go, Java, JavaScript, SML, SQL, x86
Applications/Technologies: Git, Docker, Kafka, AWS, UNIX, Django, REST, MySQL, GDB

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