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Education

Carnegie Mellon University

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

• **Dean's List** - all semesters

Relevant Coursework:

- 15-213: Introduction to Computer Systems

- 10-315: Introduction to Machine Learning

- 15-411*: Compiler Design

Work Experience ____

Facebook Seattle, Washington

PRODUCTION ENGINEERING INTERN

• Developed a build automation service for regression detection and parallel building of binaries

• Enabled multiple asynchronous builds, improving firefighting efficiency by more than 10x

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)

Carnegie Mellon University

HEAD 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

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

RoboBuggy Pittsburgh, Pennsylvania

SOFTWARE CO-LEAD

CO-DEVELOPER

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)

· 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: $C \cdot Python \cdot Java \cdot C++ \cdot JavaScript \cdot SML \cdot x86-64 \cdot OCaml^*$

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

AUGUST 23, 2019 PRANAV KUMAR · RÉSUMÉ Pittsburgh, Pennsylvania

Aug. 2017 - May 2021

May 2019 - Aug 2019

Pittsburgh, Pennsylvania

Jun. 2018 - Aug. 2018

Pittsburgh, Pennsylvania

Jan. 2018 - Present

Philadelphia, Pennsylvania

Aug. 2017 - Sep. 2018

Pittsburgh, Pennsylvania

Sep. 2017

Sep. 2018