Pranav Kumar

PHONE: 412-726-1606

EMAIL: pmkumar@andrew.cmu.edu

EDUCATION

MAY 2021 (Anticipated) **QPA: 4.00** Dean's List (Fall 2017)	**BS in Computer Science, Carnegie Mellon University** RELEVANT COURSEWORK: **15-251** - Great Theoretical Ideas in Computer Science (Current), **15-150** - Principles of Funtional Programming (Current), **15-122** - Principles of Imperative Programming, **15-151** - Mathematical Foundations for Computer Science

WORK EXPERIENCE

SPRING 2018	**Teaching Assistant** for 15-122: Principles of Imperative Computation • I teach labs, grade homework and host office hours for students
MAY 2016	**Intern at Cerner Corporation** • Synced client and server data with PHP and JavaScript for Smart Health, a cross-platform mobile application to track adolescent health • Laid foundation for internationalization of the entire application using JSON to store key words for easy translation between languages
2014 - 2015	**Student Developer at Mediawiki Foundation** • Worked on open source applications such as Wikipedia, Mediawiki, etc. • Learned Git, PHP, and the practice of code review in the process

PROJECTS AND EXTRACURRICULARS

SEPTEMBER 2017 - PRESENT	**RoboBuggy** • RoboBuggy is an autonomous competitor in the buggy races at CMU • Member of infrastructure development team and software representative • Use ROS, C++, and Python to build infrastructure to drive the buggy
SEPTEMBER 2017	**Ugly Duckling** at HackCMU 2017 • Won Google's "Best Use of Machine Learning" Award, $1000 cash prize at CMU 50th anniversary celebration • Created an autonomous, deep-learning based robotic camera operator to follow a person using facial recognition
JULY 2016	**Multi-robot pathfinding** at Stanford University • Created a multi-robot pathfinding optimization program at Stanford Pre-Collegiate Summer Institutes • Implemented in Python using a coupled approach and BFS, DFS, Dijkstra's, and A* algorithms

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, SML
Applications/Technologies: Git, Vim, ROS

HONORS AND ACHIEVEMENTS

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