Rohan Yadav
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Education

Carnegie Mellon University, Pittsburgh PA – School of Computer Science
B.S. in Computer Science, Prospective Minor in Machine Learning, May 2019
GPA: 3.66, Dean's List Fall 2015
Relevant Coursework – Principles of Functional Programming, Great Theoretical Ideas in Computer Science, Probability Theory, Introduction to Computer Systems, Machine Learning (Masters), Practical Data Science, Parallel and Sequential Data Structures and Algorithms

North Allegheny Senior High School, Pittsburgh PA, June 2015
QPA: 4.5, Top Scholar (within top 35/680 of senior class)

Skills

Programming –

- Proficient in C/C++, SML, Java, Python, UNIX Environments.
- Comfortable with CUDA C/C++, C#, Unity, LaTeX, Android, Bash, and Git Version Control

Work Experience/Projects

CMU Software Engineering Institute, Emerging Technology Center (2016 Summer)

- Worked as a summer intern for the ETC division of the CMU SEI
- For the moving target defense security group I worked on database update and visualization services, threading models and an implementation of a graph query language.
- For the biometrics group I worked on facial landmarking and body temperature extraction on mobile devices. Additionally, I proposed and implemented improvements to the heart rate extraction algorithm, ported the library and its dependencies to Java and C++, and implemented the algorithm on the Android platform.

Principles of Functional Programming Teaching Assistant (Current)

- Working as a teaching assistant for the principles of functional programming course at CMU (15-150). I teach weekly labs discussing algorithms and functional programming, along with holding weekly office hours to help students.

Teaching Assistant at Andrew's Leap at CMU (2013, 2014, 2015)

- Andrew's Leap is a highly selective 7 week math and computer science program offered for high school students at Carnegie Mellon University run by Dr. Steven Rudich.
- Taught beginner to advanced level students coding practices in C, and extended these practices to robotics
- Lectured to small groups and individually coached students through various projects, culminating in a final project for each small student group.

Multi-Agent Path Planning Research Assistant

- Assisted in Robotics Institute research involving path planning for multi-agent robotic systems. Implemented a randomized version of the M* path planning algorithm to increase performance on larger problem instances.

Awards

Presidential Scholar Semi-finalist (1/17 in Pennsylvania, 1/565 in US among high school seniors)
National Merit Scholarship finalist (1/15000 seniors in US)

Activities

Member of Carnegie Mellon All University Orchestra