Harsh Patel

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Skills

Programming Languages: Python, HTML, CSS, JavaScript, C/C++, Intel x86
Exposure to Languages: PHP, MIPS Assembly, OCaml, SFML, Haskell, Prolog

Projects

Pythagoras Tree: SFML Program Based on C++   *Fall 2020*
- Drew a Pythagoras tree using a square as a base of the tree (using recursion)
- Created a PTree class that derives from sf::Drawable (self-calling program)
- Took two parameters: base square side-length L and recursion-depth N

Machine Learning Project Based on Python   *Fall 2019*
- Trained and validated the data using different regression methods
- Calculated the accuracy of each model for better performance
- Analyzed the result to predict the housing price in California

Experience

RailPod, Boston, MA
Software Intern   *August 2019 - Present*
- Design, develop and deploy new product using Python or C++ for customers
- Develop new tools to reduce workload of the team members
- Work with development team to refine Lidar data

Shadow Operator   *May 2019 – August 2019*
- Optimized data collection procedures and generated reports daily
- Analyzed rail track data for safer measurements
- Presented findings and data to team to improve strategies and operations
- Used Amazon EC2 terminal to perform tasks quickly and efficiently

Middlesex Community College, Lowell, MA
Peer Math Tutor   *September 2017 – August 2018*
- Monitored Math Center activity for up to 15 students at time
- Explained in detail concepts in easy-to-understand terms
- Worked with students of various ages at different learning levels

Education

University of Massachusetts, Lowell, MA
B.S. in Computer Science   *Anticipated December 2020*

UMass Lowell Cricket Team   *July 2017 – Present*
- Play batsman position
- Qualified for Nationals and traveled to Houston, TX in 2019 (placed Top 8)
- Traveled to NYC in 2018 for Regionals and won the Tournament