

Harsh Patel

3 Maybury Road, North Billerica MA 01862
harsh_patel4@student.uml.edu (508)-838-9447

Skills

Programming Languages: C/C++, Python, SQL, MIPS Assembly, Intel x86, OCaml

Exposure to Languages: Java, PHP, HTML, Amazon Web Services, SFML, Haskell, Prolog

Projects

Pythagoras Tree: SFML Program Based on C++

Spring 2019

- 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 clearance data

Shadow Operator/Data analyst

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