HARSH PATEL

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SKILLS

Programming Languages: Python, SQL, HTML, CSS, JavaScript, C/C++, Intel x86
Exposure to Languages: jQuery, PHP, MIPS Assembly, OCaml, SFML, Haskell, Prolog
Operating Systems: Mac OSX, Windows, and Unix/Linux
Programming Environments: Visual Studio, Vim
Other Relevant Skills: Unix Command Line, and GitHub

EDUCATION

University of Massachusetts Lowell   **Lowell, MA**
Bachelor of Science in Computer Science   **Fall 2020**
Related Courses: Computing I-IV, Database I-II, GUI Programming I, Machine Learning,
                        Organization of programming language, Analysis of Algorithm

ACADEMIC/BENCH PROJECTS:
- Personal Portfolio, created an interactive website (accessible through mobile devices also) Using HTML, CSS, JS, jQuery, Bootstrap
- Analyzed the result to predict the housing price in California, Machine Learning Project using Python
- Pythagoras Tree: SFML Program Based on C++,

WORK EXPERIENCE

Railpod   **Boston, MA**
Software Intern   August 2019 - Present
- Writing a script and Developing new tools using libraries to enable clients to visualize and analyze data live collected by semi-autonomous railway track inspection vehicles. Technologies used: Python, CSV, PostgreSQL, Matplotlib
- Working with development team to refine Lidar data
- Helping Product Development team to test new features before release, also identifying bugs and reporting to team
- Validating Lidar and Track Geometry data before sending out to the client
- Collaborated with Product Development and Customer Support teams on bug resolution and fulfilling customer requirements

Railpod   **Boston, MA**
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
- Built a new feature using Python

Middlesex Community College   **Bedford, 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
- Identified signs of emotional or developmental problems in students
- Helped struggling students improve their critical thinking and problem-solving skills