

# HARSH PATEL

North Billerica, MA 01862

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**Creative and determined software engineer with professional work experience.**

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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:** Linux, Unix, Mac OSX, and Windows

**Programming Environments:** Visual Studio, Vim, Jupyter, Spyder

**Other Relevant Skills:** Jira, Linux/Unix Command Line, GitHub, Certified in MS PowerPoint

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## EDUCATION

**University of Massachusetts Lowell**

**Lowell, MA**

**Bachelor of Science in Computer Science**

**Fall 2020**

### ACADEMIC/BENCH PROJECTS:

- Personal Portfolio, using HTML, CSS, JS, jQuery, Bootstrap Fall 2020
  - Created an interactive website, which can be accessible through different platforms
- Machine Learning Project, using Python Fall 2019
  - Trained and validated the data using different regression methods
  - Calculated the accuracy of each model for better performance and analyzed the result
- Pythagoras Tree: SFML Program Based on C++ Spring 2019

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## PROFESSIONAL EXPERIENCE

**Railpod**

**Boston, MA**

Software Engineering Intern

August 2019 - Present

- Design, develop and implement end user tools to enable clients to analyze and visualize live data collected by autonomous railway inspection vehicles. Technologies: Python, PostgreSQL, Matplotlib
- Participant in product development team as quality assurance member during product development, testing and release
- Quality assurance of client facing data by validating Lidar and Track data
- Collaborate 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 responsible for generating daily reports
- Presented findings and data to team to improve strategies and operations
- Used Amazon AWS EC2 terminal to perform tasks quickly and efficiently

**Middlesex Community College**

**Bedford, MA**

Peer Math Tutor

September 2017 – August 2018

- Managed Math Center activity for up to 15 students at time
- Employ knowledge of mathematical concepts to help students learn and understand topic areas and terms
- Worked with students of various ages at different learning levels

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## ACTIVITY

**U Mass Lowell Cricket Team**

July 2017 – December 2020

- Played 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