

Romit Patel

[LinkedIn](#)
[Github](#)

Email: romitp@umich.edu

Mobile: 313-330-5861

Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Computer Science Engineering Class of 2023

Relevant Coursework: Databases, Computer Organization, Data Structures & Algorithms, Web Systems, Intro to Machine Learning, Computer Vision, Human-focused Design, Programming Paradigms

Work Experience

Ford Motor Company

Dearborn, MI

Product Development Software Engineer Intern

May 2022 - July 2022

- Expanded Ford's statistical toolkit by 50% for analysis and reading of RADAR/LIDAR data.
- Launched a web application called the Auto-Visualization Tool (AVT) performing statistical regression and reducing analysis time by 10+ hours per week.
- Optimized the AVT to produce a live feed player displaying outliers and errors for validation testing on thousands of camera footage.
- Clarified the structure of the DAT Team by editing the Atlassian documentation to improve the readability of JIRA Tasks leading to a 35% efficiency increase in task performance.
- Directed deployment of the tool through a Ford Kubernetes server, resulting in increased accessibility and reduced 45 minutes of tutorial setup.

Software Projects

Discord Bot: Python, HTML5, CSS3, SQL

Available on request

- Designed a Discord bot performing simulations of the game *Pokemon* for 100+ users' entertainment.
- Engineered an automated script to analyze and determine all possible weaknesses and resistances of user-inputted Pokemon types, preventing users from memorizing 310,762 different combinations.
- Administrated 500+ hours of deployment to monitor bot response time and accurate data storage/retrieval.

Scalable Search Engine: Python, HTML5, CSS3, Javascript, Bash, SQL, AWS, Hadoop

Available on request

- Developed a scalable search engine that retrieves wiki articles utilizing the Pagerank algorithm with Hadoop and MapReduce.
- Built an Index server and Search server by creating a Flask REST API backend and a Google-inspired user interface.
-

NoteTotes: Python, HTML5, CSS3, AWS, SQL, JavaScript

Available on request

- Assembled a full stack writing app catered and specialized for writers and Ph.D. students by partnering with two other developers leading to an 85% satisfaction rating from users.
- Written integration and unit tests for the React frontend and Flask API backend of the project to achieve 90% code coverage.

Skills and Interests

Coding Languages: Python, C/C++, SQL, CSS/HTML, JavaScript, Latex, Swift, Bash, Java, Assembly

Software Knowledge: ArcGis, AWS, React, Kubernetes, MacOS, Linux, iOS, Windows, Microsoft Suites, Git

Linguistic Languages: Fluent in Gujarati, Conversational in Spanish & Hindi

Interest: Mobile Development, Web Development, Art, Video Games, Sports