Romit Patel **Email:** romitp@umich.edu

[LinkedIn](https://www.linkedin.com/in/romit-patel/) **Mobile**: 313-330-5861

[Github](https://github.com/Rom-pat)

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