

# Romit Patel

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## Education

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### 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

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### 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

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### 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 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 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 project's React frontend and Flask API backend to achieve 90% code coverage.

## Skills and Interests

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**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