# **Dhruy Patel**

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#### **Education**

**Rutgers University** 

School of Arts and Science

GPA: 3.79 / 4.00

Awards: Deans List for 4 Semesters

**Bachelor of Science in Computer Science** 

**Bachelor of Arts in Data Science** Expected Graduation: May 2026

Relevant Skills: (Proficient): C, R, Java, JavaScript, Python (Familiar): MATLAB, XML, HTML, SQL

#### **Work Experience**

#### • Tech Consultant

# Target Corporation

June 2021 -- Present

- Personalize tech solutions and engage with guests by providing a clear understanding for products, such as imaging and office, tv and home electronics, portable electronics, and accessories.
- Fundamentals include inventory management, pricing, guest shopping patterns, and promotion strategies.
- o Must demonstrate skills in problem-solving, continuous learning, and time management.

## • Systems Intern

## Generations Plus

*February 2020 – June 2022* 

- o During pandemic help transition to remote and created programs for senior citizens.
- o Established new rules and changes for data management and security.
- o New changes used on daily basis and responsible for technical support.

# **Projects**

# • Navigation Simulator

- o Produced a demo of an application in C to utilizing complicated algorithms such as Dijkstra's.
- o Demonstrates the importance of optimization through real time display of different algorithms.

#### • Cache Emulator (For L1 & L2 Cache)

- Emulation of Cache on x86 processor using C in order to recreate the CPU by managing tens
  of thousands of lines while integrating multiple cache replacement policies such as LRU and
  FIFO.
- Created framework for modularity that allows for easy expansion from L1 cache all the way to L3 including changes for size and blocks.

#### • Heart Failure Prediction

- Using R programming and collaborating in a team, we first looked through the data and thoroughly analyzed the different factors and implications that it had on the likelihood of someone having heart disease.
- We utilized functions rpart and naive bayes, in which we developed two predictive models and compared the two by implemented cross-validation into our code to ensure the accuracy of our models and adjusted our model according to the results

#### • 2048 (Game)

o Integrated 2048 using **Java** while optimizing user inputs and creating drivers and graphics for animation.

# **Activities**

•	HackRU	Spring 2024
•	Creation of Games Society	2023-2024
•	Undergraduate Student Alliance of Computer Scientists	2022-2024