

Rahul Patel

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EDUCATION

Rutgers University (*Honors*) — 3.975/4.0 GPA

September 2018 - Present

- **Major:** Computer Science **Major GPA:** 4.0/4.0 **Expected Graduation Date:** Dec 2020
- **Honors & Activities:** National Merit Scholar, Dean's List, Rutgers Consulting Group, Rutgers Entrepreneurial Society, Rutgers Competitive Programming, Cognitive Science Club
- **Relevant Coursework:** Machine Learning, Intro to AI, Software Methodology, Data Structures, Algorithms, Databases, Systems Programming, Brain Inspired-Computing, Linear Algebra, Computer Architecture

RELEVANT WORK EXPERIENCE

Capital One, New York, NY — *Software Engineering Intern*

June 2020 - August 2020

- Evaluated ETL workflow management tools (Airflow, Prefect & Argo) and built a data transformation pipeline for the Machine Learning Platform
- Developed a POC Alerting & Monitoring application to detect failures in a workflow and notify downstream tasks for efficient communication using AWS Kinesis for signal data stream

Mareana, Princeton, NJ — *Data Science Intern*

May 2019 - August 2019

- Structured unstructured data and forecasted predictions via Facebook Prophet to analyze the relationship between weather events and company sales to help supply chain industry reduce unnecessary inventory by 10%
- Implemented Hough transformations, image segmentation and flood fill algorithms to isolate text blocks and automate data entry of pharmaceutical drug forms

Transportation Systems Lab, New Brunswick, NJ — *Undergraduate Researcher*

September 2019 - Present

- Processing and filtering large amounts of 3-D geospatial data reported by LiDAR sensors for intelligent traffic light control and transmitting LiDAR data to lab servers
- Constructing a digital twin for visualization of traffic events through Unity camera adjustments

Wakefern Food Corporation, Edison, NJ — *Software Engineering Intern*

October 2019 - January 2020

- Converted transmission of serialized Java objects to JSON in order to allow for backwards compatibility when making changes to serialized classes
- Automated verification of admin rights for remote access to Point of Sales (POS) system

Rutgers University, New Brunswick, NJ — *Teaching Assistant*

June 2019 - Present

- TA for Data Structures (198:112) and Introduction to Computer Science (198:111) course at Rutgers University
- Responsible for running recitations, holding office hours, review sessions and correspondence with faculty members

SELECTED INDEPENDENT PROJECTS

Jaught (*Finger Tracking Virtual Whiteboard*) — *Python, OpenCV, Tensorflow*

- Virtual whiteboard system that uses hand & finger tracking (via OpenCV) so users can "write" notes in thin air
- Gesture recognition through Tensorflow models for quick & convenient functionality such as swiping left to erase board, swiping up to share notes, and rotating hand to change font size/color

Clippy (*Web Clipboard Manager*) — *Python, Flask, JavaScript, SQLAlchemy*

- Web-based clipboard manager to store data copied to the clipboard to assist with copy-paste routines
- Added functionality to index, favorite, export and delete saved copied text with an easy-to-use user interface

HONORS & AWARDS

PennApps XX — *2nd Overall, Best Education Hack, Best Entertainment Hack, Best AR Hack (HM)* September 2019

- Solo group & placed 2nd out of 250+ teams at one of the world's largest hackathons (PennApps XX) as well as winning several other categories

National Merit Scholar — *Special Scholars Award*

September 2018

- Scholarship awarded by NMSC for outstanding PSAT/SAT score, high GPA & extracurricular involvement.

SKILLS

COMFORTABLE: Python, Java, SQL, C, HTML/CSS, Git

FAMILIAR: React.js, JavaScript ES6, MongoDB, Flask, JavaFX, REST, AWS, Airflow