

Rahul Patel

rahul2000patel@gmail.com • linkedin.com/in/rahul-c-patel • github.com/rcp125

EDUCATION

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

September 2018 - Present

- **Major:** Computer Science **Minor:** Cognitive Science **Expected Graduation Date:** May 2021
- **Honors & Activities:** National Merit Scholar, Dean's List, Rutgers Consulting Group, Rutgers Entrepreneurial Society, Rutgers Competitive Programming, Cognitive Science Club
- **Relevant Coursework:** Introduction to Artificial Intelligence, Data Structures, Databases, Systems Programming, Brain Inspired-Computing, Linear Algebra, Discrete Mathematics, Computer Architecture

RELEVANT WORK EXPERIENCE

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

June 2020 - Present

- Interning in the Enterprise Products & Platform (EP2) division on the Architecture team for Machine Learning Ecosystem & Data Consumption Tools
- Evaluating ETL workflow management tools (Airflow, Prefect & Argo) and building a data transformation pipeline for the Machine Learning Platform

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 member

SELECTED INDEPENDENT PROJECTS

OnMyTerms (*Terms & Conditions Parser*) — *Python, Django, React, Google Cloud*

- A web application that parses contract agreements to search for red flags such as hidden fees or privacy concerns
- Trained NLP model using Google Cloud Platform NLP Sentiment Analysis and created API via Django for web app

Jaught — *Python, Flask, 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

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

FAMILIAR: JavaScript(ES6, React), C++, OpenCV, Flask, MATLAB, Pandas, Tensorflow, REST