# Sagar Patil

Computer Science student at Purdue University - West Lafayette

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## EXPERIENCE

### **Bloomberg LP,** New York City — *Software Engineering Intern*

JULY 2019 - AUGUST 2019

- Worked with a development team on an internal **web application** to manage NLP model training
- Utilized **NodeJS, React, Python with Flask**, and the **Git Version Control System**

### **NJ Governor's STEM Scholars,** Rutgers, NJ — *Research Scholar*

JUNE 2019 - JUNE 2020

- Developed a new **cheap paper/digital hybrid voting** standard for New Jersey
- Discussed ideas with the **NJ Secretary of State** and leadership in the NJ Office of Homeland Security and Preparedness
- Built and programmed a **prototype voting machine** with a Raspberry Pi using **Python** and the **Pi GPIO library**.

### **FIRST Robotics Team 2554,** Edison, NJ — *Programming Captain*

SEPTEMBER 2017 - JUNE 2021

- Pioneered use of **Computer Vision techniques** to track **retroreflective** targets using **Python and OpenCV**
- Introduced industry-standard **software development workflows** using **Git and GitLab** as the Programming Captain
- Recruited and trained new team members

### **Affectiva,** Online — *EMPath Participant and Winner*

JULY 2020 - AUGUST 2020

- Worked with a team on an **AI-powered therapeutic smart mirror** to understands a user's emotions and chats with them
- Won 1st place in the Makethon

## EDUCATION

### **Purdue University,** West Lafayette — *Computer Science*

AUGUST 2021

Working towards a Computer Science major and an Electrical and Computer Engineering minor.

## PERSONAL PROJECTS AND HACKATHONS

I upload most of my personal projects to **GitHub** on github.com/sagarreddypatil. Most of my Hackathon submissions can be found on **DevPost** at devpost.com/sagarreddypatil.

**Some of my projects include**: a chrome extension to summarize articles using NLP, a self-landing rocket in Kerbal, and a model rocket thrust stand, a residual CNN in PyTorch, and an AR based physics education app

## SKILLS

Machine learning/AI, Web Development, Data Visualization, DevOps, Mobile App Development, Backend Development, Microcontroller Programming, AR/VR, Game Development

## PROGRAMMING LANGUAGES/LIBRARIES

**Languages:** Python, Java, C#, C/C++, Dart, HTML/CSS, Javascript, SQL

**Libraries**: PyTorch, Tensorflow, OpenCV, Matplotlib, Node, React, Vue, Express, Electron, .NET, Flask, Postgres, Unity3D, Arduino

## AWARDS

**Affectiva EMPath 2020 Makethon 1st Place Winner**

**HackExeter 2021 Winner**

**HackJPS 2020 Winner**

**Lockheed Martin Code Quest 2019 Winner in the Advanced Division**

**NJ Governor's STEM Scholar**

**Congressional Award – Silver Medal**

**President's Volunteer Service Award - Gold Medal**