

# Sagar Patil

Computer Science student at Purdue University - West Lafayette

## EDUCATION

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

AUGUST 2021

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

Courses: Object-Oriented Programming in Java, Multivariate Calculus

## 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 understand a user's emotions in real time and chats with them
- Won 1st place in the Makethon

## PERSONAL PROJECTS AND HACKATHONS

**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

I upload most of my personal projects to **GitHub** on [github.com/sagarreddypatil](https://github.com/sagarreddypatil).

Most of my Hackathon submissions can be found on **DevPost** at

[devpost.com/sagarreddypatil](https://devpost.com/sagarreddypatil).

(848) 219-1953

[sagarreddypatil@gmail.com](mailto:sagarreddypatil@gmail.com)

[linkedin.com/in/patilsr](https://linkedin.com/in/patilsr)

[sagarpatil.me](https://sagarpatil.me)

## 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**