Sachin Patel

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Education

Iowa State University, College of Engineering

- Bachelor of Science in Computer Engineering   Expected May 2024
- GPA: 4.0/4.0 | Coursework: Object-Oriented Programming, Algorithms, Data Structures

Technical Skills

Languages/Technologies: Java | Python | JavaScript | HTML/CSS | C | C# | C++ | React | Django | Flask

Experience

Front End Design Intern | Expaaand Contract Services   (Jul 2021 - Aug 2021)

- Produced a landing page swiftly in **HTML/CSS** and **Javascript** that secured a client.
- Designed UI's timely in Figma that pleased investors and resulted in a web design contract.

Undergraduate Research Assistant | Iowa State University   (Jan 2021 - May 2021)

- Circuited a testbed that is rented by other researchers to simulate many 5G devices in a small area.

Relevant Activities

Cardinal Space Mining | NASA Lunabotics Competition   (Sep 2020 - Present)

- Controls project director of all software and electrical features of a competing mining robot.
- Developed subroutine and subsystem programs in **Java** for a fully autonomous robot.

Robotics Club   (Sep 2020 - Present)

- Constructed all features of a battle-bot and won the battle-bots tournament at Iowa State University.

Selected Projects

Full Stack Web App | [GitHub](#) | [Demo](#)   (Jul 2021 - Present)

- Fabricated a web app in **Django** and **React** for splitting large goals into subtasks to form a goal tree.

Drone | Group Project   (Oct 2020 - Present)

- Assembled a drone's electrical system that has side motors for horizontal propulsion (coded in **C++**).

Unity Game | [GitHub](#) | [Demo](#)   (Sep 2020 - Jun 2021)

- Created a 2D video game with physics-based game mechanics using **C#** and the Unity Game Engine.

IoT Rover | [GitHub](#)   (Sep 2019 - Aug 2020)

- Engineered an obstacle-avoiding rover using Arduino, Raspberry Pi, and **C++.**
- Created a web server in **Flask** that controls the rover and displays a live feed from its camera.