

# Sachin Patel

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## Education

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### Iowa State University, College of Engineering

- Bachelor of Science in Computer Engineering.
- GPA: 4.0/4.0 || Cumulative Credits: 52.0 || Honors Student

Expected May 2024

## Computer Skills

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- C, C++, C#, Python, HTML, CSS, JavaScript, Java
- Object-oriented programming, Algorithms, Circuits

## Activities

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### ISU Cardinal Space Mining

(Sep 2020 - Present)

- Build a mining robot that competes in NASA's Robotic Mining Competition.
- Leading the development of all software (mainly in **Java**) and electrical features.
- Developed command and subsystem programs that will make the robot fully autonomous.

### Critical Tinkers

(Sep 2020 - Present)

- Assemble a quadcopter with the horizontal movement controlled by side motors (coded in **C/C++**).

### ISU Robotics Club

(Sep 2020 - Present)

- Designed all mechanical (in SolidWorks) and electrical features of a battle-bot.
- Won ISU's battle-bots competition, with all fights being knockouts.

## Selected Projects

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### Small Rover

[Code](#)

- Engineered a rover that uses [Arduino](#), [Raspberry Pi](#), **Python**, **HTML/CSS**, and **C++**.
- A web server controls the rover's multiple features and displays a live feed from its camera.

### Video Game

[Code](#) [Project](#)

- Created a space-inspired video game using **C#** and the [Unity Game Engine](#).

### Alt. Snake Game

[Code](#) [Project](#)

- Fabricated an alternate version of the classic snake game using **HTML/CSS** and **JavaScript**.

### AI Learns in Pygame

[Code](#) [Project](#) [Repl](#)

- Developed in **Python**. An [AI](#), using neuroevolution with [NEAT](#), learns to play a game I made in [pygame](#).

## Experience

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### Undergraduate Research Assistant | Iowa State University, Ames, IA

(Jan 2021 - May 2021)

- Research on building reliable wireless networks. Set up a testbed to simulate 5G environments.