

Mihir Patil

COMPUTER SCIENCE AT PURDUE UNIVERSITY

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Education

Purdue University

West Lafayette, IN

B.S. COMPUTER SCIENCE HONORS (3.83 GPA)

May 2026

- Relevant coursework: Discrete Math, Java and C Programming, Multivariate Calculus, Statistics
- Planning concentration in Machine Intelligence, Systems Software, and Algorithmic Foundations

Experience

Purdue Space Program

West Lafayette, IN

AVIONICS SUBTEAM MEMBER

September 2022 - Present

- Developed an SPI-based ADC driver for the RP2040 microcontroller using C
- Developed a real-time telemetry system to store sensor data using Telegraf, InfluxDB, and a custom charting dashboard
- Designed PCB components for the flight computer development board

b01lers CTF Team

West Lafayette, IN

MEMBER

September 2022 - Present

- Contributed to solving CTF challenges in web, blockchain, and reverse engineering categories
- Created writeups and presented solutions to other team members

NORY STEM Westchester

Hartsdale, NY

CURRICULUM DESIGNER AND CAMP COUNSELOR

January 2022 - August 2022

- Designed and implemented nine weeks of lessons built around the Arduino microcontroller and sensors
- Led a team of 4 camp counselors to facilitate technology lessons, including preparation and teaching
- Instructed K-5 students on the assembly and wiring of projects ranging from robots to pulse oximeters

Robotics Captain

Scarsdale, NY

EDGE MONT HIGH SCHOOL

September 2019 - March 2022

- Led the Edgemont Robotics Team as Captain since sophomore year, competing in the FIRST Tech Challenge (FTC)
- Mentored 15 students from grades 7-12 in Fusion 360 CAD, robot design principles, and Java programming

Projects

Wordle Together

MULTIPLAYER GAME — [HTTPS://WORDLETOGETHER.COM](https://wordletogether.com)

January 2022

- Built a multiplayer Wordle game that has been played over 200,000 times.
- Created backend using Node.js and μ WebSockets.js to handle game logic and communication between clients
- Implemented frontend in the Svelte framework, ensuring responsiveness and accessibility.

Research

Pandey, R., Chen, Y., Patil, M., Conway, P. J., Al-Khinji, A., & Mahadevan, D. (2021).

American Association for Cancer

Over-expression of CEACAM6 negatively modulates the tumor microenvironment in pancreatic cancer. *Cancer Research*, 81(13_Supplement), 3156.

Research (AACR)

Co-AUTHOR

April 2021

- Characterized interactions of the CEACAM6 gene with body systems in pancreatic cancer
- Used R language to perform analysis of RNA-seq dataset to observe CEACAM6 modulation of pancreatic cancer.
- Created visualizations for poster presented at the AACR 2021 Annual Meeting.

Honors & Awards

2023 **Best National Security Project**, BoilerMake X

West Lafayette, IN

2022 **3rd Place**, Raymond James CTF

St. Petersburg, FL

2022 **Semifinalist**, National Merit Scholarship

United States

2021 **Bronze Medal**, GENIUS Olympiad

International

Skills

Programming Languages

Python, Javascript, R, C++, Java, C, SQL, Kotlin

Technical Skills

Raspberry Pi, Arduino, Svelte, InfluxDB, Android Development, Fusion 360, KiCad, Blender, Git, Unity