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COMPOTER SCIENCE I RESHMAN ATT ORDUE ONIVERSITI

Education

Purdue University West Lafayette, IN

B.S. COMPUTER SCIENCE

May 2025

- Relevant coursework: Object Oriented Programming, and Calculus 3
- · 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 $\,$
- Designed PCB components for the flight computer development board

b01lers CTF TeamWest 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 9 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

EDGEMONT 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

January 2022

- Built a multiplayer Wordle game that has been played over 200,000 times.
- Created backend using Node.js and μWebSockets.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). Over-expression of CEACAM6 negatively modulates the tumor microenvironment in pancreatic cancer. Cancer Research, 81(13_Supplement), 3156.

American Association for Cancer 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

20223rd Place, Raymond James CTFSt. Petersburg, FL2022Semifinalist, National Merit ScholarshipUnited States2021Bronze Medal, GENIUS OlympiadInternational

Skills

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

Technical Skills Raspberry Pi, Arduino, Svelte, μWebSockets.js, Android Development, Fusion 360, Git, Unity

NOVEMBER 10, 2022 MIHIR PATIL · RÉSUMÉ