Vibhuv Sharma

(908) 361-1500 | vibhuvnarayan.sharma@gmail.com | linkedin.com/in/vibhuvsharma | https://vibhuvsharma.com

Education

Montgomery High School Sept. 2022 – Jun 2026
GPA 95.6, SAT 1560/1600, PSAT 1520/1520 *Skillman, NJ*
- Aerospace Club (Technical Lead), Science Olympiad (Captain), Mock Trial (Captain), NJ Youth and Government (Officer)

Columbia Science Honors Program Sept. 2023 – June 2026
Selected through admissions test as a freshman *New York City, NY*
- Took "Relativity", "Astronomy and Astrophysics", "Classical and Quantum Computing", "Physics of Fusion Energy"

Experience

BAIM Institute May 2024 – Present
Research Assisstant *Online/Boston, MA*
- Co-authored abstract submitted to the European Society of Cardiology while working with Harvard faculty
- Used STATA and Excel to clean, reformat, and analyze data to determine trends in patient demographics and results

Ziplyne Feb. 2024 – Aug. 2024
Software Engineering Intern *Hillsborough, NJ*
- Developed demo environments for Ziplyne's onboarding platform.
- Completed product that is being rolled out for clients, winning the best project award.

Minority Programmers Association Sep. 2021 – Dec. 2021
Software Developer Volunteer *Online*
- Collaborated with UX/UI designers and programmers to develop mentorship pages for the MPA website.
- Worked with Moralis and Blockchain technologies to build projects on the Polygon and Ethereum networks.

SeekerPitch Dec. 2020 – Apr. 2021
Software Engineering Intern *Montgomery, NJ*
- Part of a team of a founding team of four developer, building the backend API for website using JavaScript, SailsJS, and PostgreSQL.
- Implemented OpenTok video conferencing and SendGrid automated emailing, while integrating the back-end API with the React-based front-end.

Projects

Avionics and Rocketry (qualified for 2025 TARC Nationals) Sep. 2023 - Present
Worked in small teams to develop systems to automatically deploy recovery material for multiple rockets as a part of The American Rocketry Competition, ultimately developing several rockets with smart flight systems. This involved CADing custom rocketry components, designing PCBs, and writing software for recovery mechanisms.

Hackathon Projects/Software
Won 4 hackathons using various projects; Wrote machine learning algorithms for natural language processing applications in social media from scratch (Safe Space), created an app for collaborative environmental impact tracking (Wild Blue), and worked with AI solutions for applications such as mental health care and interviews (Interview Genie).

Awards

Science Olympiad Awards Apr. 2022 – November 2024
- 1st place at Cornell, 3rd place in states: 1st in Dynamic Planet, 2nd in Solar System, 4th in Fast Facts, 3rd in Regionals.

Congressional App Challenge Winner Feb. 2023
- Won the Congressional App Challenge with an app that tracks environmental impact; Invited to House of Code.

Replit/Alexa Hackathon Winner Sep. 2021
- Awarded first place in Replit and Amazon's Alexa skill hackathon with an AI Interview practice application.

KiteHacks Winner May 2024
- Joint winner of KiteHacks with Safe Space, a bot which detects bullying and provides mental health support.

Replit Diwali Hackathon Winner Nov. 2022

Classes

Courses: AP Calculus C, AP Physics C (Mech, E&M), AP Literature, AP Calculus AB (5), AP Chemistry (5)
Other Advanced Courses: Machine Learning (*Stanford University*), Introduction to Python (*University of Toronto*)

Skills & Interests

Skills: Data Analysis, Machine Learning, Mathematical & Computer Modeling, Software programming, CAD, PCB Design
Technologies: STATA, PyTorch, Various Programming Languages, Fusion360, EasyEDA, Arduino