DHRUV SAINI

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EDUCATION

Bellevue High School

Student | 📅 Sept 2023 - June 2027

- Received President's Education Award, 4.0 GPA
- **100+** hours of technical community service completed, including teaching a programming club at a local middle school

EXPERIENCE

Partify AI

Software Engineer Intern | 📅 June 2023 - Sept 2023

- Automated searching of key venues using **Selenium** and the OpenAI API
- Reduced manual labor by over **100x**

A Sustainable Future

Head of Tech | 📅 2023 - Present

- Nonprofit aiming to target environmental issues in schools
- Leading a team of 16+ prople in the development of website and data science model
- Developed app with over **30,000 users**

FIRST® Robotics Tech Challenge Team 14343

Engineer | 📅 2021 - Present

- Utilized various autonomous programming technologies using Java to complete specific challenges with large robots
- Impacted **1500+** youth through technology based outreaches

PROJECTS

MuseMistral | *Google Transformers*

- Fine-tuned **large language model** Mistral-7B with music data
- **Generates music** from a simple text description
- 150+ downloads

Constructive Connections | *Chrome, Python, Flask, Javascript*

- Made a **Chrome Extension** to block toxic Internet comments
- Created a **REST API** with **Flask** to provide context and prompts to OpenAI, determining sentiment of social media comments

Quizard | *Python, Javascript, HTML, React*

- Created a **full-stack** web app with quiz rooms where students are tutored by GPT-4 on missed questions.
- Used a **Python** server with **REST** for chat
- Created a responsive UI with **React** and **CSS**

PowerBand | *Arduino, Computer Vision, Onshape*

- Created using **computer vision** on a **ESP32 microcontroller**
- Used camera and resistance band data to limit or increase screen time to encourage exercise and limit sedentary screen usage
- Designed mechanics with **Onshape** and electronics in **EDA software**

AWARDS AND HONORS

International Academic Competitions

2nd place point total | 📅 March 2023

- Nationwide Science Bee competition
- Covered Physics, Chemistry, Biology, Earth Science, Computer Science

FIRST® Robotics Tech Challenge

Multiple prizes | 📅 Sept 2021 - Present

- Inspire Award, 1st place
- Think Award, 2nd place
- Winning Alliance

Youth Music Competition

1st place | 📅 Sept 2019 - June 2021

- Worldwide music competition, $200 scholarship

Hackathons

Pyxis Hacks II

1st place | 📅 April 2023

- Worldwide, public, open-ended hackathon

WebHack

1st place | 📅 Feb 2023

- Worldwide, public, cybersecurity hackathon

EduHack

2nd place | 📅 Aug 2022

- Worldwide, public, education technologies hackathon

EXPERT SKILLS

- C/C++, Java, Python, React, JavaScript, HTML, CSS, Ruby on Rails, Django, Onshape (3D CAD), Physical Computing, Digital Fabrication