DHRUV SAINI

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EXPERIENCE

A Sustainable Future

Founding Member, Head of Tech | Mi Oct 2023 - Present

- · Built and scaled PCM, an AI-powered mobile app predicting paper use, to 30,000 students nationwide in over 150 schools
- Trained symbolic regression model with PySR to predict paper consumption based on school demographics
- Leading team of 20 to increase adoption by developing nonprofit website and iterating on AI model, now helping save 1.7M sheets of paper per year
- Received \$30k in grants supporting sustainability impact and Gold Presidential Volunteer Service Award

University of West Virginia: SG-REAL Lab

GIS/Software Intern | # Jul 2025 - Present

- Created a 3D modeling pipeline for any power grid to simulate the effect of floods
- Finetuned SAM2 on human-labeled data to create a flood segmentation model to validate the simulations

Dimension

Software Engineer Intern | ## Jun 2025 - Sept 2025

- · Implemented webhooks to allow external companies to integrate with the enterprise collaboration platform
- · Led process to allow Stripe, Vercel, Github, and many other hosted bots in channels
- Revamped and modernized UI, completing several refactors that culminated in a 70% reduction of load time

Bond Intelligence

Software Engineer Intern | May 2024 - July 2024

- Trained novel price intelligence model to predict Bitcoin token prices with newly released Titan architecture from Deepmind
- Revamped our kanban-style token management app with an Express backend and a Tailwind / React frontend, impacting 24,000 users per year

University of Washington

Quantum Technical Writing Intern | ## Aug 2024 - Sept 2024

- Developed an AI textbook editing workflow with Gemini 1.5 to analyze textbook versions and identify/annotate optimal edits
- Accelerated editing time by 250x, cutting 120 hours of manual comparisons down to a 30 minute script run

Partify AI

Software Engineer Intern | ## June 2023 - Sept 2023

- Reduced manual labor by 60x by creating an Al web crawling agent that extracts structured data to populate venue options in the event planner app
- Designed and implemented agent with Python, Selenium and GPT-3.5 to automatically fetch relevant details for businesses in a given area

PROJECTS

Urban Heat Islands: A Geospatial Analysis | Jupyter, Pandas, Matplotlib, Pytorch

- Trained an ML model in Pytorch on satellite image samples to predict the most effective method for a city to reduce urban heat stress
- Created Python computer vision engine to detect small water bodies from satellite imagery and analyze effects of water infrastructure on heat stress
- Awarded 2nd place at the prestigious Washington State Science and Engineering Fair

MuseMistral | Python, Pytorch, Transformers

- Finetuned large language model Mistral-7B with 100,000+ pages of music data to generate music from a natural language description
- Used Selenium and Python with BeautifulSoup to automatically crawl and collect data, from which the model was trained with QLoRA

AWARDS AND HONORS

USACO

Gold Rank | # March 2024 - Present

ARC - The American Rocketry Challenge

National Finalists | # 2025

• Captained a team of five to build a rocket that transports two eggs to 790 feet and brings them down safely within 41-44 seconds

EDUCATION

Bellevue High School

- 4.0 GPA, 36 ACT, President's Education Award
- 100+ hours of technical community service, including teaching a programming club at a local middle and high school
- 13 college-level courses, including AP Calculus, AP Computer Science, AP Physics C