Siddhant Srivastava

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Objective

High school senior with a strong background in computer science, mathematics, and physics seeking internship experience to apply problem-solving and programming skills to real-world engineering projects. Other interests include film and biking.

Education

2022-Current	Interlake High School, Bellevue, Washington	GPA: 3.74	SAT: 1570

Relevant Coursework: IB Diploma (Physics HL, Math Analysis and Approaches HL, English Lang & Lit HL, Psychology SL, History SL, French B SL), AP Computer Science A, AP Physics 1 & 2, Linear Algebra, AP Chemistry, IB Film SL

Clubs: Robotics Club, Civil Engineering Club, Programming Club, Computer Vision Club

Experience

Schoolhouse SAT Tutoring (Volunteer)	- Learned to communicate with others effectively - Tutored a full 4-week SAT Bootcamp series - Led a tutor onboarding session 800+ tutoring minutes	*2024-Present*
Robotics Club	- Strategy captain for school FRC team - Member of the programming sub-team for four years - Competed at the international level	*2022-Present*
Civil Engineering Club	- Co-founder and teaching director for school Civil Engineering Club - Developed and taught lessons on the physics of core engineering subjects to members	*2024-Present*

Research Projects

Exploration of Optimization Techniques in Artificial Intelligence Microchip Design
- Comparative analysis of AI chip optimization in hardware, software, and algorithmic approaches
- Includes case studies of Google TPUs, Apple Neural Engine, and NVIDIA GPUs
- Investigated the interplay between high performance and energy sustainability in AI hardware
- Skills: Technical analysis, solution synthesis, ML model optimization techniques

Investigation of the Effect of Mass of an Object Falling in Water
- Designed a controlled experimental lab to model the principles of fluid dynamics
- Quantified effects of buoyancy through precise measurements and data analysis
- Skills: Experimental design, data acquisition and analysis

Investigation of Cognitive Biases: The Effort Heuristic in Art Evaluation
- Conducted experiment to investigate the influence of perceived effort on aesthetic judgement
- Applied statistical analysis (Mann-Whitney U Test) to an ordinal dataset
- Skills: Experimental ethics with human participants, statistical analysis

Recognition & Achievements
Skills/Qualifications

- National Merit Scholarship Semifinalist
- USACO Silver
- AP Scholar with Distinction
- Inspirit AI Scholar
- Programming (C++, Java, Python)
- Research experience
- Problem solving
- Native English speaker
- Fluent in French (CEFR B2 Level equivalent)