Saumya Singhal

EDUCATION

Henry M. Gunn High School · GPA 4.4/4.0   *August 2019 — June 2023*
Relevant Courses: AP Physics C, Analysis Honors, Geometry Honors, AP Computer Science A, Functional & Object-Oriented Programming

Foothill College · Dual-Enrollment   *September 2021 — March 2022*
Courses: Multivariable Calculus A, Multivariable Calculus B

Random Math   *October 2019 — February 2022*
Courses: Calculus BC, Physics 2.1, Prep for AMC 10, AMC 12, and AIME

The Ross Program   *June 2020 — July 2020*
Daily 10-proof sets throughout the six-week program drove inquisitive mathematical thinking and demanded problem-solving perseverance and confidence.

Stanford High School Math Circle   *October 2019 — February 2020*
Attended high school division as a middle schooler.

JHU CTY Intensive Studies in Cryptology   *June 2019 — July 2019*
"You rarely limited yourself to one method of solving the same problem" (excerpt from evaluation).

LEADERSHIP

JLS Math Circle · Founder and Director   *January 2022 — Present*
Focus on encouraging enjoyment of mathematical concepts. Consistent attendance of 20 students and overall staff appreciation.

Gunn CS Dept · Teaching Assistant   *January 2022 — Present*

Gunn United Computations · President   *May 2021 — Present*
Taught new and aspiring programmers the basics of programming. Marketed for participation and sponsorship of GunnHacks 8.0, the annual hackathon.

Gunn Math Circle · Vice President of Pure Mathematics   *May 2021 — Present*
Increased overall attendance from 15 to 90 members and female attendance from 3 to 40 members.

Ross Program · Junior Counselor   *June 2021 — August 2021*
Hosted weekly office hours for campers to receive helpful nudges on problem sets as well as a lecture on bovine numbers.

Gunn Math Dept · Teaching Assistant   *August 2021 — December 2021*
Taught Geometry in the struggling math class at Gunn, and assisted students who needed help but were reluctant to ask for it.

PROJECTS

Gunn Elimination · Schoolwide Game   *February 2022 — Present*
Programmed the school's official game portal for a month-long game of assassin. Used NextJS, Javascript, and CSS.

Gunn.One · School Utility App   *February 2021 — Present*
Utilized school LMS APIs to build an application used daily by students. Used VueJS, Javascript, and CSS.

HaoMango · Chinese Learning App   *November 2021 — Present*
Helps students master Chinese dictation with real-time feedback, now used by teacher as required learning material for the whole class.

YMath.io · Math Education Website   *March 2020 — Present*
Authored math courses in Exponents, Trigonometry, Mathematical Programming, and Calculus.

Imperichat · Schoolwide Social Media   *October 2020 — Present*
Communication channel for students to ask their peers for help with class material.

Gunn Virtual Campus · Virtual School Campus   *September 2020 — Present*
Students have a place to socialize with their schoolmates during remote learning.

Tangent · Graphing Calculator   *February 2021 — Present*
Placed Top 10 in 36-hour annual hackathon (over 200 participants total). Built a 3D graphing calculator using web technologies, at https://tangent.ymath.io/.

CONTACT

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SKILLS

JavaScript, Python, TypeScript, CSS, Java, Scheme, Nuxt, Vue, JSX, MongoDB, Git, Bash, Firebase, ThreeJS, React, NextJS, Flask, Pandas

AWARDS

2021 and 2022 AIME Qualifier

GunnHacks 7.0 Top 10 Participant

USACO Silver Contestant

Gunn Math Department Award (Geometry Honors)