

Saurabh Totey Résumé

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Education

2015 - 2019

Fairview High School

High School Diploma

International Baccalaureate Diploma

GPA: 3.9 unweighted, 4.75 weighted

- Magna Cum Laude
- National Merit Commendationalist
- National Honor Society Member

2019 - 2023

University of Colorado at Boulder

Physics (BA) and Computer Science (BS)

Minor in Math

GPA: 3.6

- President Joseph A. Sewall Esteemed Scholar Award
- Engineering Merit Scholarship

Leadership

2017 - 2019

Fairview Code Club President

Managed club activities, meetings, and events for Fairview's Code Club. Events such as code competitions and help sessions.

2017 - 2018

Fairview Speech and Debate Captain

Taught members debate skills for the Public Forum Speech and Debate event in addition to managing meetings and organizing snacks.

2018 - 2019

Fairview Robotics Lead Autonomous Programmer

Helped manage the programming team of Fairview Robotics and lead the development of our robot's autonomous code.

2017 - 2019

Fairview Stock Market Club Technology Master

Managed the Fairview Stock Market Club website and periodically gave presentations about the relationship between computation and the stock market.

Experience

September 2016 - August 2019

Kumon of Lafayette

Student Assistant

- Taught students various levels of reading and math. Tasks included teaching students how to read, analyze passages in literature, count, and do basic calculus.
- Managed center necessities such as cleaning tables and sharpening pencils.

May 2018 - Present

PhET Simulations

Student Developer

- Currently write JavaScript code to develop educational, scientific simulations for use on browsers.
- Programming work includes reading others' code, writing code directly for simulations, writing code to package libraries, and writing and fixing common code to add new features, fix memory leaks, and improve performance.
- Contributed major portions of code for the Blackbody Spectrum, Curve Fitting, and Number Line Integers simulations.

Skills

Programming

Kotlin Java D C++ C# Python JavaScript Lua Scala Rust

Git React LibSDL2 Unity Godot LibGDX OpenGL

Engineering

OnShape Blender 3D-Printing Soldering Krita Gimp Breadboard-circuitry

Soft Skills

Teamwork Leadership Work Ethic

Awards

2018

Lockheed Martin Code Quest First Place Winner

2016, 2018

Speech and Debate State Qualifier

2017, 2018, 2019

Future Business Leaders of America Nationals Qualifier

2019

3rd in Math/Computer Science Category at the Corden Pharma Regional Science Fair