

Samyok Nepal

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Education

University of Minnesota - Twin Cities

Expected Graduation: May 2025

- BS in Computer Science

Brookings High School

August 2017 - May 2021

- GPA: 4.043 - Honors Scholar
- SAT: 1570/1600 (800 math/770 reading-writing)
- Activities: National Honor Society President, Science Olympiad Captain, Science Bowl Captain, State QuizBowl Captain, Varsity Debater + National Qualifier

Experience

Fiveable, Junior Software Engineer (hours.zone)

September 2021 - Present

- Currently helping update, optimize, and maintain the core virtual studying web app.

Art of Problem Solving, Grader; Contractor

August 2021 - Present

- Analyzed Python and math homework with set guidelines, and wrote feedback to guide students to the solution.

Scioly.org, Volunteer Developer

2019 - Present

- Maintenance of critical projects, especially after a phpBB version bump. Searched for and fixed JavaScript and CSS bugs on the most popular parts of the website.
- Developed custom PHP image gallery and file storage server to replace old, inefficient, and unreliable system to be used by the more than 68,000 registered users.

Bobcat Notify, Founder (notify.samyok.us)

2019 - 2021

- Designed, programmed, and published iOS and Android app for Brookings High School students for fast and reliable emergency alerts. Gained 2000+ downloads (BHS has approx. 800 students). The Brookings School District offered to purchase the app for every school in the district.
- Led constant communication with school administration and IT to deliver relevant and timely in-app alerts and updates. User satisfaction rose to 4.9 stars on both app stores with over 50 reviews.

Brookings Math Circle, Co-Founder/Instructor

2016 - 2020

- Volunteer taught three-hour classes every week during the summer, with lessons ranging from single variable algebra to AIME-level geometry. Achieved goal of 20+ attendees per class for the last three years.
- Created curriculum by writing handouts, homework, and mock contests, resulting in over 100 pages of instructional materials over the last 5 years.
- Ensured students' success with a smooth transition into competitive math, contributing to the local MATHCOUNTS team growing by 60% to more than 30 members.

Freelance Web Developer

2018 - 2019

- Designed, developed, and sold websites and bots that used search engine features to successfully gather relevant information requested by clients quickly and accurately.
- Managed a global network of servers to successfully synchronize website state to over 7,500 users globally in under 750ms.

Awards and Recognition

Academic

- US Congressional App Challenge Winner (Bobcat Notify)
- AMC10/12 Honor Roll (2018, 2019, 2020, 2021)
- Science Bowl State Champion (2021)
- SDSU Programming Design Contest Winner (2020)
- National Merit Semifinalist
- US Presidential Scholar Candidate
- USACO Gold Division
- USAMTS Honorable Mention (2017)

Science Olympiad State Champion

March 2021

- Captained the team to the first-ever perfect score at South Dakota state and the lowest (best) team score at any state competition ever. The win was Brookings' second-ever in over 30 years of competing.

Skills & Interests

Technical Skills: JavaScript, Python, React, LaTeX, MongoDB, HTML/CSS, Git, MySQL, PHP

Interests & Other Activities: Director of nonprofit debate camp (Dakota Debate Institute), Political Theory, Hiking, Kayaking