

# Samyok Nepal

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## Education

### University of Minnesota - Twin Cities

August 2022 - May 2026

- 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

### Brookings Math Circle, Co-Founder/Instructor

2016 - Present

- Taught three-hour classes every week during the summer, with lessons ranging from single variable algebra to AIME-level geometry. Achieving 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 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.

### Scioly.org, Volunteer Developer

2019 - Present

- Maintenance of critical projects, especially after a phpBB version bump. Searched for and solved JavaScript and CSS bugs on the most popular parts of the website.
- Deployed image embed proxy and published Chrome extension to allow users to view images without interference from incorrectly configured firewalls.
- 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.

### 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