Samyok Nepal

✈ nepal017@umn.edu ☎ (605) 592-6144

🌐 samyok.us ⌨ github.com/samyok in linkedin.com/in/samyok

Education

University of Minnesota - Twin Cities *Expected Graduation: 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

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.

Brookings Math Circle, Co-Founder/Instructor *2016 - Present*
- 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.

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.
- 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