**Samarth Shah 612-940-8474 – samarthdshah12@gmail.com – linkedin.com/samarth-shah-3198**

**EDUCATION**

**Minnesota State University, Mankato (MNSU)** Mankato, MN Bachelor of Science in Computer Engineering Aug 2020- Dec 2024

* Dean’s List (5 semesters)

**TECHNICAL SKILLS**

* **Programming Languages:** C, Python, Java, PostgreSQL
* **Web Development:** HTML, CSS, JavaScript, Typescript, NextJS
* **Operating Systems & Development Tools:** Linux, Windows, Git, GitHub, VSCode)

**UNDERGRADUATE RESEARCH EXPERIENCE**

**NaviX** Mankato, MN

*Undergraduate Researcher*  May 2024 – Present

* Developing an automatic indoor navigation robot using an integration of ROS, SLAM, and Raspberry Pi.
* Secured a budget of $1300 from Undergraduate Research Center and ECET department to fund the project.

**Smart Mirror** Mankato, MN

*Undergraduate Researcher, Senior Design Project* Aug 2023 – May 2024

* Served as a project leader, designed product, developed GUI and integrated project on Raspberry PI.
* Used PostgreSQL for database management and synchronized GUI with a self-built website for user customization.
* Secured a budget of $750 from Undergraduate Research Center to fund the project.

**Alarm for Deaf** Mankato, MN

*Junior Design Project*  Aug 2022 – May 2023

* Created an affordable alarm clock for deaf people with varying modes of motion control.
* Built an application using MIT app inventor to communicate with the Bluetooth receiver on the device.

**WORK EXPERIENCE**

**Peer Academic Support Leader** Mankato, MN

*Minnesota State University, Mankato* Aug 2023 – Dec 2024

* Provided peer-led academic support using collaborative learning techniques for Calculus 2.
* Assisted students in reviewing weekly material, leading to students achieving up to one full letter grade higher

Coordinated with professors to align review materials with course objectives, enhancing academic support.

**Teaching Assistant**  Mankato, MN

*Minnesota State University, Mankato* Mar 2023 – May 2023

* Assist professor in grading C programming class and managing student homework.
* Monitor student progress and report their academic records to the professor.

**Student Intern**  Ahmedabad, India *Techno Controls* April – June 2018

* Shadowed engineers to gain hands-on experience with the design and application of temperature sensors.
* Assisted in sensor calibration, testing, and analysis to meet client requirements for precision and performance.
* Contributed to ongoing projects, supporting engineers in implementing temperature measurement solutions.

**CERTFICATION**

**IBM Cybersecurity Analyst**

* Cybersecurity Tools Proficiency: Gained hands-on experience with industry-standard tools including IBM
* QRadar (SIEM), Wireshark (network analysis), and Metasploit (penetration testing).
* Developed practical skills in incident response, forensics, compliance, and threat intelligence through handson
* experience with industry-specific and open-source security tools.
* Developed knowledge in compliance frameworks (NIST, GDPR, HIPAA) and forensic analysis.

**LEADERSHIP EXPERIENCE**

* ***President, Vice President* –** Chess Club (1 year), ***Treasurer* –** Student Association of India (2 years)