

Kaif Khan

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Projects.

- **Website:** Developed a personal website to showcase my projects and achievements using HTML, CSS and JavaScript. 01/2025.
- **Autonomous Robot:** Collaborated with a team of three to design and build an autonomous sumo robot keeping in mind the future need and use of robotics, utilizing 3D-printed components and a light sensor. Programmed the robot in Python using a Raspberry Pi. Achieved first place at the Midwestern Robotics Competition. 04/2024
- **AI project:** Developed a collaborative AI research project focused on detecting AI-generated text from human written content. Led the creation and training of a supervised AI model utilizing a dataset of 500,000 samples. Achieved accurate results using BERT, Naive Bayes algorithms. [GitHub](#) 04/2024
- **Parsing an expression using lexer:** Created a bottom-up parser using a custom lexer that analyzes and takes input of complex mathematical expressions and outputs whether the expression is syntactically correct using C++. [GitHub](#) 09/2024
- **Marble Game:** Developed a Marble Game utilizing 2D arrays to represent the NxN square board. Created a key guiding marbles up, down, left and right to corresponding numbered holes. Integrated real time stopwatch to collect data of the fastest game time and access to the directory folder. Programmed using C++ and C# .NetFrameWork. [GitHub](#) 02/2023

Education

Minot State University

Minot, North Dakota

B.S In Computer Science and Software Engineering/ Minor: Data Science. 08/2021-Present (Graduation: May, 2025)

- Relevant Courses: Data Structures & Algorithms I and II, Object Oriented Programming, Database Management I & Machine Learning and AI, Unix/Linux Environment, Systems Programming, Computer and Network Security.
- GPA: 3.6
- Extracurriculars: Tennis, Pickleball, Golf.

Certificates.

- JPMorgan Chase and Co. Software Engineering Virtual Experience Program on Forage- Completed a virtual experience focused on interfacing with stock price data and implementing Python unit testing. [GitHub](#) 08/2023
- Goldman Sachs Software Engineering Virtual Experience Program on Forage- Researched and analyzed password cracking prevention [GitHub](#). 08/2023
- Verizon Cloud Platform Virtual Experience on Forage: Testing a hypothetical VPN product and its cloud native traits using command line python. Researched and presented approaches to enhance application security in a PowerPoint presentation. [Github](#) 08/2024

Competitions.

- Digikey Collegiate Coding Competition: Participated in a team of 4 to tackle programming challenges including short and long programming problems. Thief River Falls, Minnesota 10/2023
- Midwestern Instruction and Computing Symposium: Collaborated in a team of 3 to build a robot for the robotics competition which we won 1st place in, as well as participate in a coding competition, and presenting our research paper. St. Paul, Minnesota 04/2024

Leadership And Awards

- Recognized by the Mayor of Minot for winning 1st place in the robotics competition at Midwestern Instruction and Computing Symposium (MICS) 05/2024
- MSU President's Academic Honor Roll: GPA- 4.0 2022-2023
- Member of the Student With Interest in Future Technology Club(SWIFT) 2021-Present
- National Honor Society 2021
- Recognized as Most Valuable Player Varsity Tennis 2021

Skills & Additional Information

- C++, C, C# .NetFrameWork, MySQL, MIPS Assembly, Power BI, Linux Environment(Ubuntu), Python, UNITY, Agile(scrum), Microsoft Excel, Powerpoint, Word, Outlook

