

**Bilal Noori**  
[nooribil@msu.edu](mailto:nooribil@msu.edu) • (517) 402-1516 • Lansing, MI 48912

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## EDUCATION

**Michigan State University | College of Engineering**  
Bachelor of Science, Computer Science / Minor in Business

East Lansing, MI  
May 2026 (Expected)

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## WORK EXPERIENCE

**Michigan State University Technovation**

Mentor/ Teaching Assistant I

East Lansing, MI

September 2023 – Present

- Instruct and facilitate Python programming language for a cohort of 20+ scholars, through guidance and mentorship to enrich the learning experience.
- Monitor and track students' progress on CodeHS platform, providing real-time feedback and tailored support.

**Michigan State University Upward Bound**

Program Assistant Director

East Lansing, MI

June 2023 - Present

- Manage administrative tasks, such as scheduling, budgeting, and record keeping, to ensure efficient program operation and maintain a 70% student participation in weekly academic sessions.
- Administer a cross-functional team of eight staff members, including teachers and mentors, through guidance, mentoring, and evaluations to foster effective teaching and learning.

**Michigan State University TRIO SSS**

Peer Coach

East Lansing, MI

June 2023 - Present

- Empower a diverse group of 12 college students by providing personal and social support, assistance in overcoming challenges, and promoting well-being and academic success.
- Conduct bi-weekly meetings, both in-person and via Zoom, to track and assess students' academic progress, with a focus on achieving a 95% positive academic standing and a 92% retention.

**Michigan State University Upward Bound**

Mentor/ Teaching Assistant I

East Lansing, MI

June 2022 - June 2023

- Mentored and guided 40+ students across diverse subjects (Math, Science, English, and History) resulting in an 83% college admission rate among the senior class.
- Collaborated with instructors to develop and implement an innovative curriculum that resulted in a 53% improvement in students' test scores over the course of one academic year.

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## PROJECT EXPERIENCE

**Interactive Klondike Solitaire Game**

Introduction to Programming I

East Lansing, MI

November 2022 - November 2022

- Incorporated the `cards.py` module to create a comprehensive deck of playing cards, highlighting advanced Python skills and the ability to integrate modules seamlessly.
- Engineered an algorithm for determining a win condition by evaluating specific card criteria within the game state.
- Designed a user-friendly interface using Python that displayed the game state, enhancing the player's gaming experience.

**Social Network Analysis Tool**

Introduction to Programming I

East Lansing, MI

October 2022 - October 2022

- Designed, implemented, and tested a Python program using lists, dictionaries, files, sets, and tuples to analyze key social connections within a friend network.
- Resolved network challenges by parsing and extracting data from two sets of files `Names.txt` and `Friends.csv` capturing vital information such as names, ages, and friendship connections.

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## RESEARCH EXPERIENCE

**Michigan State University College of Engineering**

Coordinator/Data Analyst

East Lansing, MI

March 2023 - March 2023

- Collaborated with a team to design and 3D print an iPhone SE phone case leveraging Autodesk Fusion 360, with a focus on analyzing stress, strain, and force data for durability.
- Utilized Microsoft Excel to input data and generate graphical representations, demonstrating a durable case design with stress resistance of up to 2500 psi and a maximum strain of 0.000325 In/in.

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## TECHNICAL SKILLS

- Development Tools: Visual Studio Code, Visual Studio, Microsoft Office Suite.
- Programming Languages: Python, C++
- Debugging, Troubleshooting, Data Structures & Algorithms, Data Analysis, Project Management, Report Generation.

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## ACTIVITIES

Spartan Hackers  
Michigan State University Futsal Club

October 2022 - Present

September 2022 - Present