

Bilal Noori

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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)

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.

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.

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.

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.

ACTIVITIES

Spartan Hackers

October 2022 - Present

Michigan State University Futsal Club

September 2022 - Present