

# Sarwar Nazrul

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## EDUCATION

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### University of Detroit Mercy

B.S. in Computer Science

Detroit, Michigan

Expected Graduation, December 2024

- o **Concentrations:** Software Engineering and Artificial Intelligence
- o **GPA:** 3.62/4.00
- o **Related Coursework:** Data Structures & Algorithms, Objects & Design, Web Technology, Computer Security, Database, Machine Learning, Software Engineering, Object-Oriented Programming, Statistics & Applications

## EXPERIENCE

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### University of Detroit Mercy

Deep Learning Research Assistant

Detroit, Michigan

April 2024 – Present

- Achieved a 92% accuracy rate in classifying heart disease using CNN and LSTM models by conducting data preprocessing and augmentation, resulting in a 15% performance improvement.
- Enhanced classification accuracy by 10% by implementing a fusion model combining multi-modal data inputs.
- Integrated cutting-edge methodologies into the project by reviewing and synthesizing insights from over 30 research papers.

### Griffiss Institute (DoD/Air Force/HNCO)

Frontend Developer / Cyber Security Intern

San Antonio, Texas

Jun 2024 – Aug 2024

- Developed an Angular web application, improving user engagement and performance.
- Improved network security by identifying and mitigating vulnerabilities, conducting Nessus vulnerability scans on devices, and reducing potential threats.
- Configured and optimized IP settings, ensuring seamless network communication and reducing configuration errors.

### Griffiss Institute (AFRL/DoD)

Cybersecurity Intern

Rome, New York

Jun 2023 – Aug 2023

- Collaborated on reverse engineering of IoT devices, employing cryptography to identify vulnerabilities, and enhancing security measures by 20%.
- Monitored and analyzed network traffic, identifying weak points and reducing potential security breaches by 25%.
- Developed proficiency in Core Cyber and EMSO operations, achieving a 30% improvement in both offensive and defensive cybersecurity techniques.

## PROJECTS

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### Room Booking System | React | Express.js | TailwindCSS | Node.js | NextJS | MongoDB | Git

- Developed a web-based room booking system for the University of Detroit Mercy, enabling efficient management of room reservations with features like user authentication, real-time availability checks, and comprehensive admin controls.

### MiDOK - AI-Powered Diagnostic Assistant | HTML/CSS | JavaScript | Typescript | Kotlin | Swift | Python | ChatGPTAPI

- Launched an AI-enhanced diagnostic tool across Apple, Android, and web platforms, providing healthcare professionals with accurate diagnostic support through a user-friendly interface, thereby addressing the strain from nursing shortages and professional burnout.

## ACTIVITIES AND LEADERSHIP

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### University of Detroit Mercy, Department of Software Engineering

Teaching Assistant for CSSE 2130 (Java)

Detroit, Michigan

Aug 2023 – Dec 2023

### Environmental Club, University of Detroit Mercy

Event Coordinator

Detroit, Michigan

Aug 2022 – Current

- Led a team in organizing monthly eco-awareness workshops and campus clean-up events.

## SKILLS

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**Programming:** Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, Angular, C/C++, Kotlin, TensorFlow, Scikit-learn, Keras

**Tools:** Android Studio, VSCode, Flutter, AWS, Docker, Jupyter Notebooks, Git, Firebase, MongoDB, Agile, CI/CD