

# Sarwar Nazrul

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## EDUCATION

<b>University of Detroit Mercy</b> <i>B.S. in Computer Science</i> <ul style="list-style-type: none"><li>o <b>Concentrations:</b> Software Engineering and Artificial Intelligence</li><li>o <b>GPA:</b> 3.62/4.00</li><li>o <b>Related Coursework:</b> Data Structures &amp; Algorithms, Objects &amp; Design, Web Technology, Computer Security, Database, Machine Learning, Software Engineering, Object-Oriented Programming, Statistics &amp; Applications</li></ul>	<b>Detroit, Michigan</b> <i>Expected Graduation, December 2024</i>
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## EXPERIENCE

<b>Griffiss Institute (DoD/Air Force/HNCO)</b> <i>Frontend Developer / Cyber Security Intern</i> <ul style="list-style-type: none"><li>• Developed an Angular web application, improving user engagement and performance.</li><li>• Improved network security by identifying and mitigating vulnerabilities, conducting Nessus vulnerability scans on devices, and reducing potential threats.</li><li>• Configured and optimized IP settings, ensuring seamless network communication and reducing configuration errors.</li></ul>	<b>San Antonio, Texas</b> <i>Jun 2024 – Aug 2024</i>
<b>University of Detroit Mercy</b> <i>Deep Learning Research Assistant</i> <ul style="list-style-type: none"><li>• 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.</li><li>• Enhanced classification accuracy by 10% by implementing a fusion model combining multi-modal data inputs.</li><li>• Integrated cutting-edge methodologies into the project by reviewing and synthesizing insights from over 30 research papers.</li></ul>	<b>Detroit, Michigan</b> <i>April 2024 – Present</i>
<b>Griffiss Institute (AFRL/DoD)</b> <i>Cybersecurity Intern</i> <ul style="list-style-type: none"><li>• Collaborated on reverse engineering of IoT devices, employing cryptography to identify vulnerabilities, and enhancing security measures by 20%.</li><li>• Monitored and analyzed network traffic, identifying weak points and reducing potential security breaches by 25%.</li><li>• Developed proficiency in Core Cyber and EMSO operations, achieving a 30% improvement in both offensive and defensive cybersecurity techniques.</li></ul>	<b>Rome, New York</b> <i>Jun 2023 – Aug 2023</i>

## PROJECTS

<b>Room Booking System   React   Express.js   TailwindCSS   Node.js   NextJS   MongoDB   Git</b> <ul style="list-style-type: none"><li>• 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.</li></ul>	
<b>MiDOK - AI-Powered Diagnostic Assistant   HTML/CSS   JavaScript   Typescript   Kotlin   Swift   Python   ChatGPTAPI</b> <ul style="list-style-type: none"><li>• 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.</li></ul>	

## ACTIVITIES AND LEADERSHIP

<b>University of Detroit Mercy, Department of Software Engineering</b> <i>Teaching Assistant for CSSE 2130 (Java)</i>	<b>Detroit, Michigan</b> <i>Aug 2023 – Dec 2023</i>
<b>Environmental Club, University of Detroit Mercy</b> <i>Event Coordinator</i> <ul style="list-style-type: none"><li>• Led a team in organizing monthly eco-awareness workshops and campus clean-up events.</li></ul>	<b>Detroit, Michigan</b> <i>Aug 2022 – Current</i>

## SKILLS

<b>Programming:</b> Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, Angular, C/C++, Kotlin, TensorFlow, Scikit-learn, Keras	
<b>Tools:</b> Android Studio, VSCode, Flutter, AWS, Docker, Jupyter Notebooks, Git, Firebase, MongoDB, Agile, CI/CD	