

Sarwar Nazrul

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SUMMARY

Experienced full-stack web developer with over 2 years of experience in building and maintaining web applications. Skilled in using technologies like React, Node.js, and MongoDB to create responsive and efficient websites. Passionate about software engineering, with a strong interest in machine learning and AI to improve real-world solutions.

EDUCATION

University of Detroit Mercy

B.S. in Computer Science

Detroit, Michigan

Aug 2022 – Dec 2024

- o **Concentrations:** Software Engineering and Artificial Intelligence
- o **GPA:** 3.6/4.0
- o **Related Coursework:** Data Structures & Algorithms, Objects & Design, Web Technology, Computer Security, Database, Machine Learning, Software Engineering, Object-Oriented Programming, Statistics & Applications

EXPERIENCE

University of Detroit Mercy

Deep Learning Research Assistant

Detroit, Michigan

Apr 2024 – Mar 2025

- Built CNN, LSTM and Transformer models for heart disease classification, achieving 92% accuracy through advanced data preprocessing and augmentation.
- Benchmarked deep learning models on the MIMIC-IV dataset, publishing findings at the IEEE CBMS 2025 Conference.
- Synthesized insights from 30+ research papers to integrate state-of-the-art techniques into model development.

Griffiss Institute (DoD/Air Force/HNCO)

Frontend Developer

San Antonio, Texas

Jun 2024 – Aug 2024

- Built a responsive Angular app with reusable components for improved desktop and mobile user experience.
- Collaborated with UX/UI teams to design accessible and intuitive interfaces, enhancing data accessibility and enabling faster decision-making for improved productivity.
- Integrated RESTful APIs for real-time data updates, enhancing performance and frontend functionality.

Griffiss Institute (AFRL/DoD)

Cybersecurity Intern

Rome, New York

Jun 2023 – Aug 2023

- Reverse-engineered IoT devices to uncover cryptographic vulnerabilities and strengthen embedded security.
- Analyzed network traffic to identify and remediate weak points, improving system resilience against cyber threats.
- Developed hands-on skills in Core Cyber and EMSO operations, supporting both offensive and defensive cybersecurity initiatives.

PROJECTS

Employee Management System - React | Express.js | TailwindCSS | Node.js | MongoDB | Git

- Developed a user-friendly, web-based Employee Management System for Orange Frog Company, now actively used by 50+ employees to streamline workforce management and employee data.
- Implemented role-based access control, real-time updates, and a simplified admin dashboard to enhance efficiency and ease of use.

MiDOK - AI-Powered Diagnostic Assistant - JavaScript | Kotlin | Python | ChatGPTAPI

- Created an AI-powered diagnostic tool for web, iOS, and Android platforms, designed to assist healthcare professionals with accurate diagnostic support.
- Developed as part of an AI healthcare hackathon competition, MiDOK enhances efficiency in healthcare settings and helps alleviate challenges posed by nursing shortages and burnout.

SKILLS

Programming: Python, JavaScript, SQL, HTML/CSS, C/C++, Kotlin

Web Development: React.js, Vue.js, Next.js, Angular, Flask, Node.js, Express.js, TailwindCSS, MongoDB, Firebase

Tools & Technologies: AWS, Docker, Git, Jupyter, Flutter, React Native

AI/ML: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn