Yousef Mheisen

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Objective

Results-driven Computer Science professional currently pursuing a Business Administration degree with a focus on CIS. Passionate about bridging the gap between technology and business, leveraging technical expertise and problem-solving skills to optimize processes. Experienced in software development, databases, and system architecture, with a strong interest in applying these skills in a professional setting.

Education

Henry Ford College - Associate in Computer Science December 2024

Eastern Michigan University - Bachelor's in Computer Information Systems April 2026

Technical Skills

- **Programming:** C, Java, Python, HTML/CSS, JavaScript, C#, SQL, PHP
- **Database Management:** MySQL
- **Tools:** Microsoft Excel, Microsoft Word, Git, GitHub, Docker, Spring Boot, phpMyAdmin, Linux
- **Soft Skills:** Communication, Problem-Solving, Teamwork, Adaptability, Time Management

Projects

Personal Portfolio Website

- Designed and developed a personal portfolio website to showcase projects, experience, and technical skills using HTML, CSS, and JavaScript.
- Built a responsive and visually appealing UI, ensuring a seamless user experience across desktop and mobile devices.
- Deployed the website on Netlify, demonstrating proficiency in web hosting, version control, and deployment workflows.
- Implemented an interactive navigation system, allowing visitors to explore sections such as Experience, Projects, and Contact with ease.
- Continuously updating and refining the website to reflect new projects, experiences, and technical advancements.
- Personal Portfolio: yousefmheisen.netlify.app

Inventory Management System

- Developed a full-stack web application for managing inventory using Java, Spring Boot, Spring MVC, MySQL, and Thymeleaf.
- Implemented CRUD (Create, Read, Update, Delete) operations for inventory items, enabling efficient stock management.
- Designed a responsive user interface using Thymeleaf for dynamic HTML page rendering.
- Utilized Spring Data JPA with MySQL to store, retrieve, and manipulate inventory data.
- Configured Spring Boot RESTful APIs to interact with the database and perform real-time inventory updates.
- Implemented form validation using Spring MVC and Hibernate Validator to ensure data integrity.
- Applied Spring Boot dependency injection (@Service, @Repository, @Autowired) to create a modular, scalable architecture.
- Secured database transactions and optimized queries for efficient inventory management.
- Tested and debugged the application using JUnit, Mockito, and Postman for API validation.
- Integrated Gradle for project build automation and dependency management.

Veterinary Clinic Management System

- Designed and implemented a veterinary clinic management system in C using structured programming principles
- Developed and optimized struct-based data storage, handling up to 30 pets and 15 services using arrays of structures.
- Integrated file handling by reading and processing CSV files (allPets.csv, allServices.csv) using file I/O functions (fopen, fgets, strtok).

- Implemented advanced C concepts including pointers, dynamic memory management, and string manipulation (strcpy, strcmp, fgets, strtok).
- Developed efficient search algorithms to locate pet records using string comparison and case-insensitive lookups.
- Utilized recursive and iterative loops to handle user interactions, service selection, and receipt generation.
- Applied modular programming principles by creating reusable functions for pet record management, service selection, and payment processing.

Snake Game
- Developed a fully functional Snake game in Python using the Turtle module for graphics and animation.
- Designed and implemented game mechanics, including movement, food spawning, collision detection, and scoring.
- Created an interactive user experience by integrating keyboard controls and real-time game updates with Turtle graphics.
- Implemented a game-over condition that resets the game upon collision, providing a seamless player experience.
- Documented and shared the project on GitHub, showcasing proficiency in version control and code documentation.

ELEGOO Smart Robot Kit
- Designed and assembled an autonomous robotic car using the ELEGOO Smart Robot Kit, integrating sensors, motors, and controllers.
- Programmed Motion and Obstacle Avoidance using Arduino and C++, implementing ultrasonic and infrared sensors for real-time environmental awareness.
- Implemented Line Tracking and Object Detection using IR and ultrasonic sensors to enable autonomous navigation.
- Optimized Bluetooth and Infrared Remote-Control functionalities, improving responsiveness and real-time user interaction.
- Integrated PWM Motor Control Algorithms to fine-tune speed and directional accuracy, enhancing smooth motion.
- Debugged and Troubleshot Electrical and Software Issues, ensuring stable operation and reliable automation.

Custom PC Build
- Assembled a fully functional custom-built PC from the ground up, including CPU, GPU, RAM, power supply, cooling system, and storage installation.
- Applied thermal paste techniques and cooling solutions to prevent overheating and improve system longevity.
- Installed and configured Windows/Linux operating systems, along with essential drivers and software for optimal hardware utilization.
- Configured and optimized BIOS settings, fan curves, and thermal management for efficient system performance.
- Performed cable management and airflow optimization to enhance system aesthetics and thermal efficiency.
- Diagnosed and troubleshot hardware issues, including boot failures, overheating, and compatibility conflicts.
- Conducted benchmarking and stress testing using tools like Cinebench, 3DMark, and HWMonitor to evaluate system stability.
- Researched and selected compatible components, ensuring cost-effective performance and upgradability.

Experience

BP - General Manager | December 2023 – October 2024
- Managed daily operations, ensuring efficiency, profitability, and compliance with company policies through clear communication with staff and leadership.
- Oversaw staff training and performance, providing constructive feedback and coaching to enhance customer service and operational effectiveness.
- Managed inventory, financial reporting, scheduling, and payroll while ensuring accurate and timely communication of key business metrics.
- Implemented strategies to drive sales and improve customer experience, effectively conveying goals and expectations to employees.