MOHAMMED ALSHMAYRI

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EDUCATION

Bachelor of Science in Computer Science   **May 2025**
Wayne State University, Detroit, MI   *4.00 GPA*
- **Relevant Coursework:** C Programming, SQL, Python, Web Internet Technologies, Java Programming, C# Programming, Principal of Cybersecurity, CS I, CS II, IT Software Management, Mobile Application Development, Ethics in Computer Science, Algorithm Design & Analysis, Computer Operating Systems, Intro to Database Management Systems, Software Engineering, Computer Architecture & Organization, Intro to Theoretical CS

WORK EXPERIENCE

American Axle & Manufacturing   **Dec 2023 – Present**
IT – Engineering Applications Co-op   *Detroit, MI*
- Spearheaded the development of a full-stack application utilizing Java (API), React Redux, Spring Boot, and Figma, streamlining backend processes and enhancing user interface experiences
- Engineered automation scripts with Python and PowerShell to extract and transform data from log files and Active Directory, feeding into SQL databases for comprehensive reporting and user tracking
- Maintained and troubleshooted critical engineering applications including ECS, CAE, CAD, GEAR, and NVH, ensuring seamless operation and minimal downtime
- Managed software inventory through SCCM, creating deployment packages for Software Center, and facilitated AWS server migrations, optimizing infrastructure performance and reliability

PROJECTS

CRS – Web Application, American Axle & Manufacturing (React, Java, Figma)
- Led the development of a web-based Cost Request System, streamlining the approval process for new part requests from major automotive clients such as Ford, GM, and Stellantis, ensuring seamless integration across multiple departments and managerial levels
- Implemented key features including meeting scheduling, task management, and multi-departmental approval workflows, enhancing efficiency and communication within the parts request process for high-profile automotive clients

Online Restaurant Menu Ordering System (HTML, PHP)
- Developed an interactive restaurant menu order form using HTML and CSS
- Enhanced user experience by enabling menu item selection and quantity input
- Introduced a real-time customer order reporting page, streamlining order processing and enhancing customer service

Online Bookstore (React, PHP, Firebase, MySQL)
- Developed an online bookstore platform that allows users to browse and purchase physical books.
- Utilized React for the frontend to create a responsive and interactive user interface, improving user experience.
- Implemented backend functionality with PHP and Firebase for real-time database management, user authentication, and order processing.
- Managed source code and version control using GitHub; hosted the application on GoDaddy for public access.
- Integrated search features and user reviews to enhance navigation and engagement.

Interactive Web Projects Showcase - Personal Website (HTML, Python, CSS, PHP)
- **Tuition Calculator**
  - Creating an interactive calculator to estimate tuition fees, integrating multiple input fields and calculating tuition costs based on various factors
  - Enhanced web development skills using HTML, CSS, and JavaScript for complex calculations and inputs.
- **Rock Paper Scissor Game**
  - Implementing the game logic and user interface, ensuring interactivity and proper functioning of the game mechanics
  - Gained a deeper understanding of JavaScript functionalities, including conditional statements and event handling. Learned about the structure of simple game development, focusing on user interactions and logic flow
- **Grade Calculator**
  - Constructing a functional grading system, accounting for various grading methods and subject parameters
  - Expanded Python skills by incorporating mathematical operations and conditionals. Understand different grading methodologies and logic structures to handle diverse input scenarios
- **Color Mixer**
  - Creating an interactive color mixer tool, enabling users to combine and visualize different color combinations
  - Improved HTML and CSS skills by understanding the elements and styles required for user interaction. Learned how to create an engaging and interactive interface using web technologies
- **Coin Flipper**
  - Developed a functional tool for simulating virtual coin flips with randomized outcomes.
  - Enhanced technical skills through algorithmic development, creating responsive tools tailored to user needs.

SKILLS

- **Programming Languages:** Java, Python, C#, C++, PHP, C, JavaScript, TypeScript, SQL, HTML5/CSS, PowerShell
- **Frameworks/Tools/Technologies:** React, AWS, Docker, Spring Boot, PostgreSQL, Firebase, GitHub, Azure, Linux, Junit, New Relic, Snyk, Figma, Power BI, SharePoint, Jira, WorkOtter, Microsoft Office, Git Bash, pgAdmin, GoDaddy, Arduino, Android Studio
- **Certificates:** Semi-Annual 2022 Engineering Competition
- **Languages:** English, Arabic