Mahmud Hossain

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MahmudHossainn.github.io/portfolio/ | linkedin.com/in/mahmudhossainn | https://github.com/MahmudHossainn

EDUCATION

University of Ottawa - Bachelor of Science in Computer Science (CO-OP), 2023 - present
Expected graduation: 2027

PROJECTS

Event Attendance Management System (EAMS)
Android Application Development | Java, XML, Firebase

- Collaborated in a team of six to design and implement a mobile application streamlining event registration and attendance tracking.
- Developed the frontend interface using **XML** and integrated it with a robust backend written in **Java**.
- Utilized **Firebase** for real-time database management and user authentication.
- Designed user roles: Attendee, Organizer, and Administrator, each with specific functionalities to manage events and registrations.
- Implemented features including: attendee/organizer registration, administrator approval for new user, organizer event creation, event search, event registration approval, event management.
- Conducted basic unit testing to ensure application stability and functionality.

Expense Tracker
Web Application | Python, SQLite, HTML, CSS, Flask, Matplotlib

- Developed a web application using **Python** and **Flask** to allow users to track and manage personal expenses efficiently.
- Implemented secure user authentication with password hashing and session management via **Flask-Login**.
- Designed and managed the database with **SQLite** using **Flask-SQLAlchemy**, enabling robust and scalable data storage.
- Created dynamic data visualizations by generating expense summaries and pie charts with **Matplotlib** and served them as interactive reports.
- Built the frontend with **HTML** and **CSS** to provide a responsive and user-friendly interface.
- Deployed the application on **PythonAnywhere**, allowing users to access the live app from anywhere.
- Gained hands-on experience in integrating Python-based backend services with a database and delivering a cloud-hosted solution.

Text Editor
Terminal Based | C

- Developed a cross-platform terminal-based text editor in **C** supporting file operations (open, save, create) and basic text editing functionalities (insert, delete, navigate).
- Implemented efficient memory management for handling dynamic text buffers and ensured compatibility with various file formats.
- Utilized **ncurses** library for **Unix-based** systems and **conio.h** for **Windows** to handle terminal input/output.
- Gained hands-on experience with low-level system programming concepts such as terminal I/O, file handling, and dynamic memory management.

[Personal Portfolio](#)
Website | *HTML, CSS, JavaScript*

- Designed and developed a responsive personal portfolio website to showcase academic achievements, technical skills, and projects.
- Implemented a dynamic navigation menu with **JavaScript** for improved user experience on both desktop and mobile devices.
- Integrated contact form functionality with **Formspree** to enable seamless communication.
- Showcased academic and project highlights, including links to GitHub repositories.

SKILLS

Technical Skills:
- Experience in multiple programming languages - **Java, Python, C, HTML, CSS, JavaScript, XML.**
- Experienced in android development, demonstrated through the EAMS project.
- Proficient in web development, shown through Expense Tracker web app and Personal Portfolio project.
- Knowledge in using low-level programming languages, demonstrated through the Text Editor app.

Communication and Collaboration Skills:
- Excellent communication skills, acquired through various roles in the customer service industry.
- Successfully collaborated with team members to solve issues, maintaining a positive group environment.
- Fluent in English and Bengali.

Time Management Skills:
- Delivered project deliverables on time, following rigorous deadline requirements.
- Able to handle a fast paced environment, honed through years of customer service experience.

WORK EXPERIENCE

Cashier/Self Checkout Attendant   Aug 2023 - March 2024
Walmart Canada, Ottawa, ON
- Provided efficient customer service by troubleshooting technical issues at self-checkout kiosks, enhancing user satisfaction.
- Worked closely with team members to manage high-volume operations and ensure compliance with company policies.
- Handled diverse responsibilities in a fast-paced environment, demonstrating strong organizational and multitasking skills.
- Operated cash registers and handled transactions effectively.

Team Member   Aug 2022 - July 2023
Arby's Canada, London, ON
- Delivered excellent customer service, ensuring a positive experience for all guests.
- Prepared and served food items with accuracy and efficiency, adhering to company standards.
- Maintained cleanliness and sanitation standards in the work area.

Deputy Returning Officer Tech   June 2022
Elections Ontario, London, ON

- Demonstrated excellent teamwork and collaboration.
- Skillfully used different technological devices.
- Helped handicapped people in their voting process, making the process smoother and efficient.