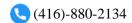
Basant Hafiz

Software Engineer

Toronto, ON











Education

BEng Software Engineering Undergraduate student at Lassonde School of Engineering Bachelor of Engineering - Architecture Engineering York University SEP 2020- DEC 2025 Fayoum University, Egypt - June 2011

Certifications

Meta Front-End Developer (access certificate here)
Programming with JavaScript by Meta (access certificate here)
HTML and CSS in depth by Meta (access certificate here)

Sep 2024 July 2024 Aug 2024

Technical Skills

Programming Languages: Java, JavaScript, C/C++, Python, SQL, Bash

Web Technologies: HTML, CSS, React

Tools & Platforms: IntelliJ IDEA, Visual Studio Code, Git, Linux, MATLAB

Other Skills: Data Analysis, Problem-Solving, Team Collaboration

Experience ___

Computer Lab Assistant

York University, Toronto, ON- SEP 2022 - APR 2023

- Managed laboratory equipment configurations, including hardware and software such as lab-test, operating systems like Linux and Windows.
- Provided technical support and guidance to over 100 students daily, assisting with lab experiments and troubleshooting issues.
- Supported researchers with technical tasks, equipment troubleshooting, and experiment setup.
- Conducted routine equipment maintenance and calibration to minimize downtime and enhance reliability.
- Oversaw daily laboratory operations, ensuring compliance with safety standards, cleanliness, and proper resource allocation.
- Applied expertise in Linux system administration, shell scripting, MATLAB, Java, and C to manage operating systems and networks efficiently.

Interior Designer

Upwork.com JUN 2011 - APR 2019

- Created design concepts, mood boards, and sketches to align with client objectives.
- Developed detailed plans using CAD software and small-scale models.
- Selected materials and finishes within client budgets, providing samples for approval.
- Defined project timelines, budgets, and requirements, ensuring clear communication with clients.
- Sourced materials and products to bring design plans to life.
- Oversaw project execution, inspecting final designs to ensure alignment with client goals.
- Utilized design software and tools to streamline the creative process.

Projects: ____

Personal portfolio

Toronto, ON- DEC 2024

- Personal portfolio, GitHub link.
- Designed and developed a personal portfolio website using React, HTML, and JavaScript.
- Built with a responsive design, ensuring compatibility across both desktop and mobile devices.
- Implemented a toggle feature for dark and light themes, allowing users to choose their preferred viewing mode.
- Utilized Visual Studio Code (VSC) for efficient code writing and project management.
- Created an interactive and user-friendly layout to showcase skills, projects, and experience.

Applied modern web development practices for optimal performance and cross-browser compatibility.

Solution for Booking a Table on the Little Lemon Website

SEP.2024

Coursera - Meta Front-End Developer Capstone Project: GitHub link

- Developed a web application to facilitate table bookings on the Little Lemon restaurant website as part of the Meta Front-End Developer Capstone project.
- Designed the user interface (UI) to be intuitive, allowing customers to select booking details such as date, time, and number of guests.
- Implemented responsive design techniques to ensure the website is functional on both desktop and mobile devices.
- Integrated JavaScript for dynamic user interactions and validation of booking information.
- Applied front-end development principles such as user experience (UX) optimization, efficient navigation, and accessibility features.
- Collaborated with real-world best practices in web development, utilizing tools like Git and GitHub for version control.

Digital Filters and Noise Removal from Audio Signals

York University -Toronto, ON - DEC 2024

- Used MATLAB to write code for designing a bandpass FIR filter and removing noise from audio signals.
- Implemented FFT to analyze the noisy signal, identify noise frequencies, and applied time-domain and frequency-domain filtering techniques.
- Created MATLAB plots to visualize the frequency spectrum, filter performance, and cleaned audio signals.
- Validated the filter performance by analyzing time-domain and frequency-domain responses through plots.
- Access code document from here.

Database System Project

York University -Toronto, ON- MAY 2023 - AUG 2023

- Built a Java-based GUI for data input and displaying MySQL query results.
- Integrated methods to streamline data insertion, retrieval, and backend processes.
- Optimized database performance using SQL Trace, Explain Plan, and SQL Loader.
- Troubleshot and improved database functionality and readability.
- Gained experience in ETL processes, data conversion, and data analysis.

Auto plant watering system

York University -Toronto, ON- JAN 2021 - APR 2021

- You can view the project in action through the following video: <u>Presentation Video</u>, GitHub <u>link</u>
- Designed and built an automated plant watering system using Arduino microcontrollers and sensors.
- Programmed the system to monitor soil moisture and activate a pump when levels dropped below a set threshold.
- Integrated temperature and humidity sensors to prevent overwatering and optimize plant growth.
- Conducted thorough testing and troubleshooting to ensure system accuracy and reliability.

Arduino-MATLAB Temperature Alert System

Personal project -Toronto, ON- DEC 2021

- You can view the project in action through the following video: <u>Presentation Video</u>
- Developed a temperature alert system using an Arduino-compatible kit and MATLAB.
- Programmed MATLAB to detect temperature changes and process signals from the Arduino Grove board.
- Configured the Arduino board to trigger an audible alarm, notifying users to manage temperature levels.

Volunteer experience

ACSA Food Bank

Toronto, ON- OCT2020- NOV 2021

- Managed food donations and inventory, ensuring proper tracking and storage.
- Maintained facility cleanliness and adhered to safety standards.
- Assisted participants during food distribution events, ensuring smooth operations and addressing inquiries.
- Collaborated with team members to improve efficiency and enhance the experience for attendees.