

Disha Padia

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Technical Skills

Languages/Frameworks: Java, Python, C, C++, C#, HTML, CSS, JavaScript, ReactJS, Golang

Tools/Platforms: Git, Jupyter Notebook, MySQL, Linux, Windows, MacOS, Markdown, PostgreSQL, PgModeler, FastAPI, Unity, OpenAI, GroqAPI

Soft Skills

Adaptability, Time-Management, Problem-Solving, Flexibility, Patience, Teamwork, Attention to Detail, Interpersonal Skills, Critical Thinking

Work Experience

Backend Developer, Ontario Tech Racing

May 2024 – April 2025

Oshawa, ON

- Co-lead backend development for the team's CFD simulator interface, focusing on backend architecture, database design, and deployment.
- Coordinated with the frontend team to enable seamless communication between the UI and backend system.
- Reported to the Software Team Lead to ensure a streamlined development process while following project management guidelines.

Education

Ontario Tech University

Sept 2022 – Present

Honors B.Sc. in Computer Science with Data Science Specialization and Math Minor

Oshawa, ON

- Dean's List: Fall 2022, Winter 2023, Winter 2024
- **Relevant Courses:** Data Structures, Algorithm Analysis, Databases, Data Analysis, Computational Science, Software Design, Software Systems Development and Integration, Artificial Intelligence, Information Visualization, Software Quality Assurance, Big Data Analytics, Human-Computer Interaction

Projects

StudySphere - HackHive 2025 Top 10

Golang, GroqAPI, HTML/CSS, Git

- Enhances student productivity using AI-generated study guides, a Pomodoro timer, and distraction-blocking features.
- Implemented an AI-driven analytics dashboard to track study patterns, provide insights, and improve learning efficiency.
- Developed a real-time website restriction system to detect and prevent distractions, reinforcing focus.

Spam Detector

Java, HTML, CSS, Git

- Effectively addresses spam emails by utilizing the Naïve Bayes Algorithm.
- Precision and accuracy are guaranteed through the examination of word frequencies and a large dataset.
- User experience is enhanced with an intuitive and user-friendly interface.

Global Education Trends Analysis

Python

- Used Kaggle's World Education data to explore the trends that shape society and give insights about global education.
- Implemented the data science process, utilizing Pandas, NumPy, Matplotlib, and Seaborn for data manipulation and visualization.

Chat Server

Java, HTML, CSS, Git

- Allows real-time communication across multiple chat rooms.
- Functionality includes joining and creating chat rooms, sending messages with timestamps, chat room greetings, and efficient message sending with user notifications.

Volunteer Experience

Mentor/Tutor, Big Brothers Big Sisters of Halton

Sept 2018 – June 2022

Milton, ON

- Provided one-on-one homework and assignment support for students in grades 1-8.
- Conducted weekly sessions and was on-call for additional help, ensuring academic improvement.