

# Abdul Arif

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## EDUCATION

**BComm. Honours, Business Administration & Computer Science (Double Major)**  
**Specialization: Supply Chain & Business Analytics**

Windsor, ON | Jun 2023

UNIVERSITY OF WINDSOR

## WORK EXPERIENCE

**UNIVERSITY OF WINDSOR | TEACHING ASSISTANT (TA)**

Windsor, ON | Sept 2021 - Present

- Data Structures and Algorithms: Conducted lab sessions (in-person and online) teaching about 75+ students Data Structure and algorithms concepts.
- Computer Networks: Taught students how to implement network applications and sockets in **Python** and **Java**

**CODE NINJAS | CODING TEACHER (CODE SENSEI)**

Windsor, ON | Mar 2021 - Sept 2021

- Taught kids ages 5 - 14 how to code in a fun, and engaging way: playing and building video games they love.
- Explained programming concepts using Scratch to code games such as Space Invader and Ninja Run.
- Coached the advanced stage students using our Game Development Platform to teach several languages such as **JavaScript**, **Python**, **Lua**, and **C#**

**OCEANSOURCE TECHNOLOGIES | SOFTWARE ENGINEER INTERN)**

Lasalle, ON | Aug 2020 - Dec 2020

- Designed database structure, so my team could store sensitive medical data to be analyzed with machine learning.
- Implemented database using advanced SQL queries.

## PROJECTS

**UWINDSOR COMPUTER SCIENCE WIKI** 

REACT, CSS, DOCUSAURUS

- Opensource project created by Computer Science students to convert the old student guide website primarily written in **Ruby on Rails** into a better Wiki written in **React**.
- Created a student Wi-Fi guide page for the wiki using **React** and **Docusaurus** which provided a new guide for students that helped new students access the university's secure network.

**BATTLE FOR THE GALAXY** 

UNITY, C#

- Created interactive objects in **Unity**, and programmed **C#** scripts needed for the interactive objects.
- Programming many technically challenging features, including the Capture the Flag System, Weapon Switcher, Player health, the Gun System: Pick and Drop, Aim and Shoot, Variety of Firearms and Bullets, Muzzle Flash effect, FPS Camera Shake (for recoil).

**TRAFFIC DATA CHALLENGE** 

HTML, CSS, PYTHON, JAVASCRIPT

- Won 2nd place at BorderHacks 2021 for the Traffic Data Challenge out of 50+ teams.
- Implemented Google Maps API in **JavaScript** to create a site for visualizing Traffic Windsor's OpenData API.

**SCHEDULESOFT** 

MYSQL, JAVA, JUNIT

- Developed a scheduling application to make managing appointments for clients (patients) easier.
- Designed and implemented a **SQL** database to securely store user log-in info and appointment information.

**NETWORK IP MANIPULATOR** 

PYTHON

- Used multiple threads so program could discover live network neighbours and report them at the same time.
- Created a tool to find computers on the local network and then removed internet access by overwhelming it with TCP or UDP packets; to expose a vulnerability in the structure of Wi-Fi.

## SKILLS

**Languages:** Java, Python, C, PHP, HTML, CSS, JavaScript, ~~LaTeX~~, C#

**Technology:** Git, Wireshark, MySQL, PostgreSQL, Unity, Node, Heroku, Tableau

**Frameworks:** React, Flask, Fastify, Streamlit