

Usman Zaheer

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EDUCATION

University of Guelph

Bachelor of Computing, Software Engineering Honours (Coop), Minor in Project Management

Guelph, ON

Sep 2020 – Present

- Achievements: Dean's Honor List (Winter 2022, Summer 2021 and Fall 2020)

EXPERIENCE

Incoming Software Developer Intern

Pro Navigator

Sep 2022 – Dec 2022

Toronto, ON

Software Developer Intern

TigerCat Industries

May 2022 – Aug 2022

Paris, ON

- Worked apart of the Back End Services and Windows Applications team to develop, test, and deploy features to existing apps/services, while also maintaining internal services using **.NET Framework** and **ASP .NET Core**
- Improved response time from **REST API** by **37%** when fetching global machine data by implementing an in server **caching system** to cache commonly requested machines and prevent repeated database queries
- Developed a Windows **Desktop Application** to allow **50+** engineers to share files, export programs to an excel workbook with **10** format options, and validate files using references fetched from **MySQL DB**

PROJECTS

Computing Chat | *Python, Flask, JavaScript, HTML/CSS, PostgreSQL* [Click Here](#)

Mar 2022 – May 2022

- Deployed a Full Stack **Python** web app using a **Flask** with **Websockets**, **WTForms**, **Sqlalchemy** and Javascript, HTML, CSS with a **PostgreSQL** database to securely store user account information
- Utilized **web sockets** to provide a real time **2** way connection for a smooth chatting experience
- Implemented a secure User Authentication System, utilizing, **Encryption**, **CSRF Tokens**, and Session managers

Social Media Infrastructure API | *C#, .NET 6, Azure, Docker, Azure SQL Server*

May 2022 – July 2022

- Deployed a **REST API** using **MVC** architecture which serves user authenticated post data, while supporting CRUD operations, Searching, and Filtering from a **SQL** database using **.NET 6**, **Azure DB**, and **Docker**
- Added Custom Auth using **Bearer Tokens (JWT)** with **EF Core**, DTOs to retrieve data from SQL Server
- Used **Dependency Injection**, **Repository Design** and deployed a **Docker Image** to **Cloud Container**

SVG Parser | *C, Node.js, Express.js, jQuery, HTML5, CSS3/Bootstrap, libxml2*

January 2022 – March 2022

- Constructed a **Full Stack** web app using a **Expressjs** and **Nodejs** server to interact with a **C** image processing library to serve a HTML, CSS/Bootstrap, JavaScript front end which allowed users to manipulate SVG files
- Web app supports all **CRUD** applications while caching user files locally for use in image editing operations

Covid-19 Data Visualizer | *Python, Pandas, Seaborn, Matplot*

Feb 2021 – Mar 2021

- Developed a **Python** program to process data from Ontario's public Covid-19 database, using libraries like **Pandas**, **Seaborn** and **Matplotlib**, to produce graphs to display information analysis results of all correlated data

Personal Portfolio | *React, TypeScript*

Feb 2021 – Mar 2021

- Created a personal portfolio app and used features like state management, hooks, and CSS animation design

TECHNICAL SKILLS

Languages: C#, Python, TypeScript/Javascript, C, HTML/CSS, Java, SQL, NoSQL

Frameworks: .NET Framework, ASP.NET Core, Flask, React, Node.js, Express.js, Tailwind CSS, Pandas, Seaborn

Developer Tools: Git, Azure, Docker, Heroku, MSTest, Jest, Bash, Powershell, Windows, Unix, Azure SQL Server, Azure Cloud Container, MySQL, PostgreSQL, MongoDB, Postman, Insomnia, Excel, Word

Other Skills: Containerization, CI/CD, OOP, SOLID, Async Programming, App Design, Parallelism, Shell Scripts

CERTIFICATIONS

Certificate of Full Stack Web Developmet

Nov 2021 – Feb 2022

The 2022 Web Development Bootcamp

- Coursework: Basic Personal site, Dice rolling page, REST API for article/book data, To Do List app, Blog Website, React CRUD app for taking/keeping notes