USMAN ZAHEER

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EDUCATION

University of Guelph   Guelph, ON
Bachelor of Computing, Software Engineering   Sep 2020 - May 2024
- Guelph Coding Community and Society of Computing and Information Science

SKILLS

Languages: Python, JavaScript, C#, Java, C, SQL, HTML, CSS
Frameworks/Libraries: .NET, Flask, React, FastAPI, Node.js, Express.js, Pandas, Seaborn, Selenium
Developer Tools: Azure, AWS, Docker, Git, Terraform, Jira, BitBucket, MSTest, Pytest, Jest, Postman

WORK EXPERIENCE

Pro Navigator   Kitchener, ON
Software Engineer Intern   Sep 2022 - Dec 2022
- Developed features for a microservices app with **Python, React, MySQL, and AWS** on the Tools/Services team
- Introduced **5+** endpoints with over **10+** unit tests for the product authentication API

TigerCat   Cambridge, ON
Software Developer Intern   May 2022 - Aug 2022
- Proposed and integrated a cache system for global machine data, which improved the response time of **25** endpoints by storing recently called endpoints data (**.NET Core, CacheManager, Dapper, MySQL**)
- Architected a Windows app to allow for **50**+ engineers to parse, share, validate, and export IQAN programs in **3** different file formats (**.NET Framework, MySQL**)
- Introduced the first proprietary SDK for parsing and validating IQAN programs and a internal excel file creation library
- Learned and implemented **multi-threading** to allow for 4 to 8 files to process concurrently using semaphores, locks, and asynchronous programming

University of Guelph   Guelph, ON
Teaching Assistant   Jan 2022 - May 2022
- Led office hours of over **10**+ students to explain new concepts from Intro to Objected Oriented Programming (**Java**)
- Presented in over 35 lab sessions to mentor students, hand out small tasks, give feedback, and answer questions

ACRP Ltd   Kitchener, ON
Web Developer Intern   May 2021 - Aug 2021
- Maintained company website using **HTML, CSS, JavaScript** and **C# and .NET** to create new endpoints and implement 3 new pages
- Suggested and integrated changes to **30+** components which organized information and displayed relevant data of products

PROJECTS

Computing Chat *Python, Flask, PostgreSQL, JavaScript, Jinja, HTML, CSS*
- Engineered a messaging app for new developers, which has over **50**+ registered accounts and **200** monthly site visits, created in **Flask**
- Implemented a **real time** user chatting experience by utilizing web sockets to achieve an instant 2 way connection
- Maintained user security by adding a custom user authentication system, CSRF tokens, and encryption

Social Platform API *C#, .NET, Azure, Docker, Azure SQL Server*
- Designed a REST API using **.NET** to manage accounts and posts for upcoming social media projects. App has over **300** posts uploaded, alongside **20+** registered accounts since deployment all while being secure by using JWT tokens for authentication

Covid-19 Visualizer *Python, Pandas, Seaborn, Matplotlib*
- Developed a **Python** program to create graphs of any related data found, for example, age, region, time, and demographic. Around **10000**+ entries contributed for the creation of graphs, all from Ontario's Covid-19 database

SVGShop *Node.js, Express.js, C, HTML, CSS*
- Constructed a **Node**/**Express** app and designed a C parsing library to allow for fast SVG changes. App allows adding, editing, viewing, scaling, saving, and even validating SVGs against an XSD schema

AWARDS / CERTIFICATIONS

Won the Most Production-Ready Award at Hack the Job   Jan 2022
AppBrewery Complete Web Development Bootcamp Certificate   Dec 2021
FCC Certificate of Responsive Web Development   Aug 2021