

Usman Zaheer

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EDUCATION

University of Guelph

Bachelor of Computing, Software Engineering, GPA: 3.7/4.0 (85% cumulative)

- Dean's Honor List: 2020-2022

September 2020 – April 2025

Guelph, ON

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, Go, Java, C, SQL, HTML/CSS

Frameworks/Tools: Azure, AWS, React, FastAPI, .NET, Node.js, Flask, Docker, MySQL, Postgres, JUnit, MSTest

EXPERIENCE

ProNavigator

September 2022 – December 2022

Software Engineer Intern

Kitchener, ON

- Migrated Amazon CloudWatch to utilize synthetic canaries written in Node.js and Puppeteer to manage state of microservices. Resulting in over **50** possible issues being caught before customers they reached customers
- Developed internal account management tool by adding 5+ event handlers AWS Lambda/FastAPI to handle both auth and user account processing, with React to serve the SPA
- Created and performed both unit and integration tests for user profile service, achieving over **75%** code coverage
- Documented UI changes and design decisions for the Confluence pages of internal services

TigerCat

May 2022 – August 2022

Software Developer Intern

Cambridge, ON

- Created the **first** proprietary IQAN parsing SDK for C#/.NET developers across the company. Utilized graph traversal algorithms to allow for maximum efficiency when performing operations while also memoizing results
- Developed a native Windows app to allow for **100** engineers to share, validate, and export IQAN files in 3 different file formats utilizing both .NET Framework Windows Forms and my SDK
- Achieved **80%** faster file processing speeds by introducing multi-threaded systems into the file diagnostics desktop application
- Architected a backend service which utilized an internal **k-d tree** ADT to serve details about customer's global machine data

University of Guelph

January 2022 – May 2022

Teaching Assistant

Guelph, ON

- Taught concepts of beginner programming such as: functions, heap/stack memory, memory management, and basic data structures to a class of 296 students in C
- Held lab sessions where I presented small tasks for students to complete, gave feedback, and answered questions

ACRP Ltd

May 2021 – August 2021

Web Developer

Kitchener, ON

- Collaborated other developers to design, build and maintain a company landing page using HTML/CSS, JavaScript and ASP.NET Core
- Designed **30+** new components which organized information and displayed relevant data of company products
- Proposed design and structural decisions for frontend features and API endpoints which contributed to the overall Google lighthouse score of **99**

PROJECTS

Computing Chat | *Flask, PostgreSQL, Heroku, JavaScript*

- Engineered a messaging app for new developers, which has 50+ registered accounts and over **200** monthly site visits, powered by Flask
- Implemented a real time chat experience, by utilizing web sockets to achieve an instant 2 way connection

Shrinkly | *Go, React, PostgreSQL*

- Constructed a Go REST API consumed by a React web app to provide a fast and reliable URL shortening

Social Platform API | *.NET, Azure, Docker, Microsoft SQL Server*

- Deployed a web service using .NET/C# to manage accounts and posts for upcoming social media projects. App has over **300+** posts uploaded, alongside 20+ registered accounts since deployment