Usman Zaheer

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EDUCATION

University of Guelph — September 2020 – April 2025
Bachelor of Computing, Software Engineering, GPA: 3.7/4.0 (85% cumulative) — *Guelph, ON*

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, Go, Java, C, SQL, NoSQL, HTML/CSS
Frameworks/Tools: Azure, AWS, .NET, Node.js, FastAPI, React, Flask, Docker, MySQL, Postgres, MongoDB

EXPERIENCE

ProNavigator — September 2022 – December 2022
Software Engineer Intern — *Kitchener, ON*

- Caught over **50+** possible issues before they reached customers by adding Amazon CloudWatch synthetic canaries written using Node.js and Puppeteer to monitor state of microservices and product
- **70%** increase in account management efficiency by developing an internal management tool using AWS Lambda functions/FastAPI to process both auth and user accounts, while being fully interactive through a React SPA
- Created and performed both unit and integration tests for user management service endpoints, achieving over **75%** code coverage

TigerCat — May 2022 – August 2022
Software Developer Intern — *Cambridge, ON*

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

University of Guelph — January 2022 – May 2022
Teaching Assistant — *Guelph, ON*

- Taught concepts of programming such as: functions, heap/stack memory, memory management, program design, algorithm design, and data structures to a class of 296 students in C

ACRP Ltd — May 2021 – August 2021
Software Developer Intern — *Kitchener, ON*

- Designed **30+** new components which organized information and displayed relevant data of company products
- Obtained a Google lighthouse score of **99** by proposing design decisions for features and API with ASP.NET Core

PROJECTS

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

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

Shrinkly | *Go, React, PostgreSQL, Docker*

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

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