USMAN ZAHEER

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EDUCATION

University of Guelph   2020 – 2025
Bachelor of Computing, Software Engineering, GPA: 3.7   *Guelph, ON*
- Coursework: Data Structures, Algorithms, Operating Systems, Object Oriented Programming (OOP), Cryptography, Discrete Math, Software Systems Development and Integration, Project Management, Microcomputers

EXPERIENCE

RBC   September 2023 – December 2023
Incoming Software Engineer Intern   *Toronto, ON*

Palantir   May 2023 – August 2023
Software Engineer Intern   *New York City, NY*
- **Led** the **architectural design** and execution of a pipeline migration framework, utilizing **Java**, **TypeScript**, and **React**. This helped automate the migration of **1000's** of deprecated transforms/expressions being used on a broad-scale production data pipelines
- Moved frontend categorization and user-defined groups to **Java** backend **microservices**. Improved the handling and management of categories, delivering a **20%** increase in efficiency and delivering scalable solutions using **Java**
- Engineered solution for upstream transform retrievals, giving users metadata that showcases the impact of transforms. By enabling users to make better-informed decisions this feature mitigated **50%** of common errors and enhances data quality

University of Guelph   Jan 2023 – April 2023
Software Developer   *Guelph, ON*
- Created a versatile desktop application using **Python, Electron**, and **JavaScript**, Improving research paper review workflows, and producing summarized reports and effectively boosting the administrative efficiency by **75%**
- Integrated custom business logic into background programs using **Inter Process Communication** (IPC), and effectively **decoupling**. This enhancement led to a **25%** increase in **concurrent** multi file processing capacity

ProNavigator   September 2022 – December 2022
Software Engineer Intern   *Kitchener, ON*
- Migrated legacy user account management system to leverage FastAPI and **AWS** Lambda for a scalable backend infrastructure with minimal disruption to business operations, all while decreasing service **p99** latency
- Deployed **Node.js** based AWS canary systems to **CloudWatch** and release deployment pipelines to effectively monitor, test, and ensure quality of product, resulting in enhanced system availability across all services
- Developed comprehensive unit, integration, and regression test suites for a diverse range of backend microservices, resulting in code coverage exceeding **90%**

TigerCat   May 2022 – August 2022
Software Developer Intern   *Cambridge, ON*
- Developed a electronic program parsing library for analytics to power a desktop platform for **100+** engineers to get analyze, validate, and export reports in **3** different formats (json, excel workbooks, csv) built by utilizing **.NET/C#**
- Achieved **80%** faster processing speeds on stress tests by introducing **multi-threaded** file processing into large operations
- Architected backend services which utilized a quad tree geo location service handling a data volume of **1 million+** machine records and logs (**Azure, C#/.NET**)

PROJECTS

Computing Chat | *Flask, PostgreSQL, Heroku*
- Created software community platform with **50+** registered accounts and over **200** monthly site visits, created with **Flask**
- Utilized web sockets to allow students to talk in real time about the latest tech news, internships, and more

Media Infrastructure API | *.NET, Azure, Docker, Microsoft SQL Server*
- Designed a **REST** API using .NET to manage accounts and posts for new and upcoming social media platforms
- Over **300** posts have been created to date, alongside **20+** registered accounts since deployment

Shrinkly | *Go, MySQL, Docker, React*
- Constructed a fully containerized web app, with a **Go** REST API and a React frontend to provide URL customization

Covid-19 Data Visualizer | *Python, Pandas, Seaborn, Matplotlib*
- Developed a Python program to create graphs. Around **100000+** entries, all from Ontario's Covid-19 public database

SKILLS

Languages: Java, C#, Python, TypeScript, JavaScript, Go, Rust, C, SQL
Technologies: .NET, Node.js, React, Redux, Git, Docker, AWS, Microsoft Azure, JUnit, Jest, Flask, FastAPI, Gradle