

# 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
- Alongside a team of **4**, developed a **patented algorithm** using TypeScript to determine column level data lineage across an entire pipeline as apart of a company wide hackathon which got pushed to be standardized in Q3 product goals

### 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** application services. 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 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 many backend microservices, with 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

### 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

### Computing Chat | Flask, PostgreSQL, Heroku

- Created software community platform with **50+** registered accounts and over **200** monthly site visits, created with **Flask**

### 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 **100,000+** 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