Usman Zaheer

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Education

University of Guelph September 2020 – April 2025
Bachelor of Computing, Software Engineering *Guelph, ON*

- Extracurriculars: Guelph Coding Community (GCC) and Society of Computing and Information Science (SOCIS)

Experience

Palantir May 2023 – August 2023
Software Engineer Intern *New York City, NY*

- Joined Full stack Development on the product, Foundry (Java, Golang, Typescript)

University of Guelph Jan 2023 – April 2023
Software Developer *Guelph, ON*

- Worked with the Department of Molecular and Cellular Biology to create a native file processing app using Python, Electron, and JavaScript
- Automatically take research paper peer review results (Excel) and transform the data to be inputted into custom generated customer result summaries (PDF)
- The automation of this process allowed for a **700%** increase in administrative workflows for all users

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, synthetics, and Puppeteer to monitor state of both front end and backend services
- **70%** increase in account management efficiency by developing an internal management tool using AWS Lambda functions/FastAPI to process auth and user account endpoints, served through a React application
- 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 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 a **k-d tree** ADT to serve details about customer global machine data

Projects

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

- Engineered a messaging app for computer science students which has **50+** registered users, being powered by Flask

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

Portfolio | *React, TypeScript, Sass*

- Created a portfolio app which contains some information about me and my projects, fully deployed on Netlify

Technical Skills

Languages: Python, Golang, Java, C#, JavaScript, C, SQL, YAML, HTML/CSS
Technical Tools: AWS, Azure, GCP, .NET, FastAPI, Node.js, React, Electron, Docker, MySQL, Postgres, Flask, Redis