

# MOHAMMED FARAZ SAUDAGAR

linkedin.com/in/farazsaudagar · github.com/farazsaudagar · fsaudagar97@gmail.com · (519)-731-0466

## EDUCATION

### University of Guelph

Bachelors in Computing, Computer Science *GPA: 3.8*

Guelph, ON

Sep 2020 - Jan 2025

## TECHNICAL SKILLS

Programming Languages: C#, Python, JavaScript, HTML, CSS, Java, C++, SQL, Dart  
Python Libraries: Numpy, Pandas, Matplotlib, Scipy, PyTorch, spaCy  
Frameworks: .NET, WPF, React, NextJS, Flutter, Flask, Django, Ajax, Java Spring  
Tools: GitHub, Azure, Bitbucket, Docker, Playwright

## WORK EXPERIENCE

### Software Developer

*Mantech Inc*

Guelph, ON

Jan 2024 - Sep 2024

- Revitalized a legacy WinForms application by implementing a modern **WPF** desktop solution (**C# and .NET 8**) with **dependency injection and MVVM**, enhancing feature efficiency by **50%**.
- Developed a **dynamic report editor** enabling customized data views and visualizations, leading to a **20%** increase in data usability.
- Introduced a **script editor** for recursive scripting on robotic systems, elevating automation capabilities by **30%**.
- Collaborated with Lab and QC teams to fine-tune software specifications, shortening feedback loops by **25%**.

### Software Developer Co-op

*MarsQuant - Quant Finance Start-Up*

Mumbai, India

May 2023 - Sep 2023

- Spearheaded the development of a SaaS trading platform with **NextJS, TailwindCSS, and ChartJS**, expanding the user base by **15%**.
- Deployed a real-time NSE data scraping bot with **Python and Selenium**, driving a **65%** increase in trade volume through timely market updates.
- Constructed algorithms for trend analysis based on implied volatility and open interest, bolstering the platform's analytics reliability.

### Research Associate Co-op

*School of Engineering - University of Guelph*

Guelph, ON

Sep 2022 - Dec 2022

- Designed visualization tools to interpret data from 100+ experimental tests on screws using **Python** libraries, ensuring accurate representation of complex datasets.
- Enhanced client websites with **JavaScript and Django**, streamlining workflows and improving user experience for three clients.
- Published a research paper on experimental findings from Archimedes screw pump tests, contributing to engineering literature.

### Software Developer Co-op

*Global Burden of Animal Diseases*

Guelph, ON

May 2022 - Sep 2022

- Built data pipelines and automated reporting tools that served global research teams in over 200 countries, delivering accurate data outputs.
- Processed and analyzed 22 years of data on animal species with Python to uncover insights critical to ongoing research.
- Engineered web scraping tools to compile data on 300+ animal species, enhancing data quality and availability.

## PROJECTS

### Rentr - A Rental Marketplace *Flutter, Supabase (SQL)*

2023

- Co-created a C2C rental platform for household items, developed within a 2-day hackathon to promote passive income and sustainable consumer habits.

## EXTRA-CURRICULAR ACTIVITIES

### Director - Guelph Coding Community

2022-2023

- Coordinated weekly gaming sessions for the Guelph Coding Community, fostering collaboration between developers and strengthening relationships through shared experiences in programming challenges and skill-building activities.