

# ARSHAD USMAN

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## EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)

Bachelor of Computer Engineering, with Software Engineering Specialization.

## SKILLS

Languages: Python, C, C++, C#, Java, JavaScript (React, Node), TypeScript, .Net, JavaFX, HTML, CSS, VHDL  
Libraries: NumPy, Pandas, Matplotlib, Scikit Learn, OpenCV  
Tools/Databases: Git, Docker, Kubernetes, Azure, Azure Data Studio, MongoDB, REST APIs, FAST API, Flask, Jupyter, SQL, MySQL, Oracle 21c,12c,11g, JIRA, JUnit, Clover, TestNG, Postman, Selenium, PITclipse, gRPC, RabbitMQ, AWS, GCP, Spring, Hibernate, Visual Studio, VS Code  
Methodologies: Agile Development SCRUM, OOP, TDD, Version Control, CI/CD, Waterfall, ISP, CFG, DFG, Logic Coverage

## WORK EXPERIENCE

Software Developer | Toronto Metropolitan Aerospace Design

Sep. 2024 – Present

React.js, react redux, tailwind CSS

- Designed and implemented a dynamic [website](#), improving **user engagement** and **content organization**. Enhanced performance, optimized for responsiveness, and streamlined workflows for seamless accessibility across devices, contributing to a more effective online presence.

Co-President | Toronto Metropolitan University, Electrical and Computer Engineering Course Union

May 2023 – Aug. 2024

Ascended from the position of VP Communications (2022-2023)

- Led** a 15-member **cross-functional** team, **overseeing web development**, events, finance, marketing, and professional development.
- Planned** and **executed** events/projects, such as Alumni night, resume roasts, coding and hardware workshops, professors versus students, sports tournaments, care packages, and academic tutorials. Benefitted more than **1500+ Electrical and Computer Engineering students**.
- Doubled** attendance rates at events, post COVID and University name change, through **marketing campaigns** as VP communications prior.

Computer Engineering Director | Toronto Metropolitan Undergraduate Engineering Student Society

Sep. 2022 – April 2023

Ascended from computer engineering subcommittee (2021-2022)

- Advocated** for over **900+ computer engineering students**, as part of the board of directors, on the Engineering Student Government.
- Processed 50 + student cheque reimbursements** as part of the **finance** committee, using **ClickUp** to manage requests and validate receipts.
- Mentored** incoming first year students, as an orientation leader, assisting them with their transition from high school to university.

Sales Associate | Walmart Global

Oct. 2019 – Sep. 2024

4+ Years of sales experience

- Helped **transition** fresh department through pandemic, **learning** new technologies from store **revitalization**
- Handle **inventory management software** on a regular basis, including making price changes, **updating**, and checking inventory from vendors, **assessing** fresh merchandise quality, and **allocating** donation materials to foodbanks accordingly.
- Only** associate in the **entire** store to be trained in all departments pertaining to fresh, including bakery, deli, produce, meats, frozen, and dairy. Demonstrates **versatility**, and **catering** to organizational needs per demand, and as a result, **mastered** communication, customer service, problem-solving, time management, and teamwork. **Senior** member of the Meats department, only after the department manager.

## PROJECTS

StockWatch

Python, Flask, NumPy, React.js, JSON, Flask, OpenCV, Support Vector Machine, MongoDB, Material UI, Yahoo Finance API, REST API, HTML, CSS, Figma

- Full-Stack Web application developed in **Agile SCRUM** environment, with 4 sprints and 10 team members. Hosted on **.cloud**, using **MongoDB**.
- Problem:** Investors struggle to balance market tracking with work productivity. **Solution:** Pick Stocks, Set Thresholds, Receive Alerts, Invest.
- Retrieves** pricing data ethically through **web-scraping** Yahoo finance API, and **periodically** updates data using a **scheduler task**, every 4 hours.
- Stores stock data on **MongoDB cloud**. User selects stocks, setting a **threshold** for appropriate purchase price, and sign up for **automated email alerts** through the easy-to-use UI. They are then **notified** when the price **reaches** the threshold and **prompted** to invest accordingly.

Niche Food Finding Application

Java, HTML, CSS, JSP, SQL, Docker, Kubernetes, REST API, Apache Tomcat

- Dynamic **user-friendly** website, using **microservice architecture** and **REST API** for smoother interaction between components. Enables user to **login or search** for appropriate niche foods, such as kosher, halal, and different cuisines, using **SQL** to save favourite restaurants and searches.
- Deployed using **Apache Tomcat** webserver, using **Docker** and **Kubernetes** for efficient containerization.

Pharmacy POS DBMS

Java, JavaFX, SQL, Oracle 21c, Apache Maven

- Online/brick-and-mortar **POS system** created using Java 19, Oracle 21c XE DB, and JDBC. Utilized **User-Friendly UI** with functionalities for customers, employees, and Data Base Administrators, and **efficient data management** through a **relational database model**.
- Features** include table-creation, data population, item search, purchase confirmation, and dynamic inventory updates.