# **Uzma Ferdous**

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## **EDUCATION**

# **University of Toronto, B.A.Sc in Computer Engineering**

2021 – 2026 (expected)

- Awarded Dean's Honour List (2021/22 Fall, 2022/23 Fall)
- **Relevant courses:** Software Design and Communication (C++), Programming Fundamentals (C++), Computer Fundamentals (C), Computer Organization, Digital Systems, Calculus III, Linear Algebra
- *Clubs*: Cybersecurity Student Association Lead, Engineering Society Web Developer, Frosh Web/Tech Team, ECE Ambassador, Frosh Handbook Executive

## **SKILLS**

ProgrammingC/C++ • Python • React.js • HTML/CSS • JavaScript • Verilog • PowerShellTech & DatabaseDocker • Google Cloud Platform • Google Firebase • MongoDB • MySQLTools & ConceptsGit/GitLab • Jira • Confluence • Heroku • CI/CD • Agile Development

### **EXPERIENCE**

# Infrastructure & Cloud Operations Intern, Questrade Financial Gro

May 2023 - present

- Gaining hands-on experience with **Google Cloud Platform** (GCP), **Terraform**, and **GitLab** to write, test, and document infrastructure automation code, as well as manage cloud resources
- Utilizing **IT management** tools such as Device42 and vSphere to correct 100+ device inventory records, manage network infrastructure, and generate detailed reports for optimizing resource allocation
- Leveraging **Jira** and **Confluence** to review and document code, according to industry conventions and guidelines

# IT Intern, Children's Aid Society of Toronto

June - September 2022

- Configured Checkpoint security for 400+ Lenovo laptops and used Microsoft Excel to keep record of progress
- Key achievement: Successfully prepared 800+ laptops for deployment to office employees

### **IT Field Staff, Toronto District School Board**

July - August 2021

- Supervised the return of 15,000 TDSB-loaned devices and reported team progress to IT supervisors and staff
- Recorded software issues and/or electronic damages for all chrome books using Google Suite tools

### **PROJECTS**

## E-Commerce Art Website (Link → GitHub)

May 2023 - present

- Designing and building an e-commerce website to sell my paintings using React.js and Next.js
- Implementing admin management functionalities to manage pricing and resources
- Creating checkout page with Stripe for payment processing and MongoDB to store user information

# **Scavenger Hunt Mapper**

January - April 2023

- Worked in a team of 3 using C++ to extract geographic information from the OpenStreetMaps (OSM) database
- Developed custom algorithms for our **API** to parse and store data for roads, subways, points of interest, etc.
- Leveraged the GTK library to create a decluttered UI, including a directions sidebar, favourites list, and settings menu
- Implemented STL data structures such as hash maps and Tries to display map data and optimize search functions
- Secured **4th** out of 90 teams on course leaderboard for our 'Travelling Courier Problem' algorithm, implemented using **Multi-target Dijkstra**, **simulated annealing**, and 3 **two-opt** operations

# "Tidey" - Interactive Syllabus Website (Link → GitHub)

November 2022 - January 2023

- Used React and Node.js to develop a course organization website for university students to add/edit/delete courses, calculate and save grades, and store course-related files
- Integrated **Google Firebase** into the website using *Firebase Authentication* for user authentication, *Firestore Database to* add, delete, and edit courses, and *Firebase Storage* to store user files