

# Félix Mainville

UNIVERSITY OF GUELPH STUDENT, B.CS COMPUTER SCIENCE (CO-OP)

## CONTACT



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## TECHNICAL SKILLS

**Languages** | 'C', Python, Java, 'R',  
SQL, HTML, CSS, Rust

**Operating Systems** | Mac OS X,  
Linux (Debian, Arch), Windows

**Development Tools** | VS Code,  
Cursor, GitHub/GitLab, Docker,  
Valgrind, Vercel, MariaDB, Azure,  
Google Cloud

## OTHER SKILLS

**Mathematics** | Algebra, Calculus,  
Discrete, Statistics

**Computer Coding** | Problem  
Solving, Solution Design,  
Algorithms

**Tutoring** | Mathematics, Computer  
Science, French

**Sports** | Golf, Hockey

## LANGUAGES

**French, English** | Fully bilingual in  
both official languages, oral &  
written

## PERSONAL PROJECTS

- **Optimal Routing System for a Lawn Care contractor | 2024**
  - Developed using Python
  - Uses Google Cloud API for Geolocation Data & Function Calls
  - Uses dynamic information to determine daily route for multiple crews
- **Personal Portfolio Website | 2024**
  - Web Coding with React.js, Next.js, TailWind css deployed on the Vercel platform
  - Highlights personal profile, Educational history, academic interests, coding projects
- **2D Battle Game, Python Coding Project | 2022**
  - Self-guided academic learning project
  - The game is set in Shakespeare's "Hamlet". The game involved characters from the play, and the objective of the game was to win 1 v 1 'Street Fighter' style battles.
  - The project was a semester game development that allowed a creative approach in the reenactment of the final duel in Shakespeare's play.

## WORK EXPERIENCE

### IT Service Technician

2025 - Present

*Municipality of Chatham-Kent*

- Replacing hardware (Hardware Lifecycle Replacement Project)
- Providing technical/remote assistance and training to system users
- Installing hardware and peripheral components at various municipal locations
- Performing minor repairs to computer hardware and software

### Technical Support (Weekends)

2022 - 2024

*MITC Solutions Inc.*

- Diagnosed and resolved hardware and software issues for laptops and computers
- Provided remote assistance to users with desktop applications
- Imaged and configured workstations

### Lawn Maintenance (Summers)

2022-2024

*JCZ Home & Property Management*

### Landscaper and Labourer (Summers)

2020-2022

*JCZ Home & Property Management*

## AWARDS

### University of Guelph - 2023

Scholarship offer to Computer Science Programs

**Dean's List** - Year 1, University of Guelph, B.CS Computer Science Program

**ÉSPC** - Business Management Awards Recipient award given to the student with the highest course grade

**Honours List** - High School (Academic track - Gr 12)

# EDUCATION

## Bachelor of Computing Honours, Computer Science (Co-op) | 2023-Present

University of Guelph, Guelph, ON

- Completing a minor in Statistics
- Maintaining an 84% average
- Dean's Honour List for Fall 2023, Winter 2024 and Fall 2024 semesters

## Key Academic Projects

VCard File Parser (developed in C, Python and SQL) | 2025

- Built shared library files in C to interoperate with Python frontend
- Used Asciiatics Python Library to build intuitive front end
- Followed specific VCF file format requirements and applied debugging tools for functional and memory safe parsing
- Used MariaDB for data storage and queries of contacts and vcf files

Investment Portfolio App (developed in Java) | 2024

- Implemented Object-Oriented concepts for large scale application
- Used hashmap data structures for efficient searching and handling of many investments
- Created a GUI interface to integrate with back-end code while writing proper documentation

Animal Classification Machine Learning Tool (developed in C) | 2023

- Implemented several mathematical measures to measure similarity between data
- Implemented the 'k-Nearest Neighbour' machine learning algorithm with different similarity metrics to classify animals based on specific characteristics

Automobile Database Manager (developed in C) | 2023

- Implemented database management solution using dynamic linked list data structure and Valgrind to manage and detect memory leaks within the program
- Used sorting algorithms to sort cars based on specific properties for each car

## École Secondaire Catholique de Pain Court

Pain Court, ON

- High School Student - Sept 2019 - June 2023
- Grade 12 Graduate, Honours