

# SEIFEDDINE REGUIE

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## SUMMARY OF QUALIFICATIONS

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- **Highly skilled third-year Computer Science student** with a strong foundation in software development, data structures, and algorithms. Expected graduation: Spring 2026.
- Proficient in **Java, Python, C, and C++**, with hands-on experience in **object-oriented programming (OOP)**, **UML modeling**, and **full-stack development**
- Strong project management experience using **Git** and **GitHub** for version control and collaboration.
- Demonstrated ability to design and develop Android applications, **web-based solutions**, and **algorithmic problem-solving** tools.
- **Trilingual** (English, French, Arabic), excelling in cross-functional collaboration, technical communication, and problem-solving.

## EDUCATION

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### University of Ottawa

*Honours BSc in Computer Science*

*GPA : 8.0*

**Ottawa, Canada**

*January 2023 – Present*

Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming (Java & C++), Discrete Structures, Software Engineering Principles

**Academic Projects:** Developed Android application for PC order management, explored GitHub for version control, and designed UML diagrams for project modeling.

## TECHNICAL SKILLS

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- **Programming Languages:** Java, Python, C, C++, PHP, SQL
- **Web Development:** HTML, CSS, JavaScript, PHP
- **Development Tools:** Git, GitHub, Android Studio, IntelliJ IDEA, Clion, PhpStorm, FileZilla
- **Software Engineering:** UML Modeling, Object-Oriented Design, Design Patterns
- **Concepts:** Data Structures, Algorithms, Big-O Analysis, Problem-Solving, Database Management
- **Deployment & Hosting:** FileZilla, GitHub Pages

## WORK EXPERIENCES

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### Junior Communications Officer

*University of Ottawa, Faculty of Health Sciences*

**Ottawa, Ontario**

*September 2024 – now*

- Collaborate with the marketing team to optimize digital communications and develop content for web and social media platforms.
- Manage the creation and distribution of promotional materials, focusing on enhancing alumni engagement through targeted communications.
- Streamline workflows by implementing automation tools, increasing the efficiency of newsletters and email campaigns.
- Work with cross-functional teams to align communication strategies with the university's outreach goals.

### JustLikeHome, Charlotte suites, Cozy suites

*Management, administrative and maintenance agent*

**Ottawa, Ontario**

*Jan 2023 – now*

- Responsible for managing and overseeing Airbnb properties, ensuring they are well-maintained and meeting guests' expectations;
- Provide exceptional customer service to guests, addressing their inquiries, concerns, and requests promptly and professionally; and

- Available at all times to assist guests with their needs, whether it's coordinating check-ins, resolving issues during their stay, or offering local recommendations.

## PROJECTS

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### Custom PC Ordering Android App — 2024

- Designed and developed a full-featured Android application for custom PC orders using **Java** and **SQLite** for data storage.
- Implemented efficient order management and tracking features, improving usability with **responsive design** principles.
- Managed the project using **Git** for version control, facilitating smooth collaboration and maintaining project history.

### Card Game in C++ (CSI2772 Project) — Fall 2023

- Developed a two-player **card game** in **C++** simulating strategic gameplay with **object-oriented design** principles.
- Implemented key components such as **Deck**, **TradeArea**, **Chain**, and **Hand** using **standard template libraries** (STL) like `std::vector`, `std::list`, and **design patterns** (Factory and Chain).
- Utilized **exceptions**, **downcasting**, and custom operators to enforce game rules and provide intuitive error handling.
- Built a **save/load** system to allow game resumption, integrating file I/O with the use of **stream insertion/extraction** operators.

### Algorithm Solver Website — 2024

- Built a dynamic web-based platform to solve **polynomial equations** of degrees 1 to 5, utilizing **PHP** for backend logic and a user-friendly front-end interface.
- Deployed the solution using **FileZilla**, optimizing server-side performance to handle multiple calculations concurrently.
- Integrated **Big-O analysis** to compare solution algorithms and optimize the system's response time for complex equation solving.

### ADDITIONAL PROJECTS

- **Data Structures Implementation:** Developed implementations for **linked lists**, **binary trees**, and **hash maps** in C++, focusing on optimizing memory use and runtime efficiency.
- **Real-Time Weather Application:** Created a Java-based weather forecasting app, utilizing API calls to gather and display real-time weather data. Implemented error-handling and data caching mechanisms.

## REFERENCES

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Available upon request.

# COVER LETTER

**Dear Hiring Manager,**

I am writing to express my interest in an internship opportunity at your organization. As a **second-year Honours BSc in Computer Science student** at the University of Ottawa, I have developed a strong technical foundation, including **proficiency in Java, Python, C, C++**, and experience in **software development, data structures, algorithms, and object-oriented programming**. My passion for problem-solving and creating efficient, scalable solutions makes me a strong candidate for this role.

In my recent academic projects, I have successfully developed a range of software solutions:

- I created a **Custom PC Ordering Android App** using **Java** and **SQLite**, focusing on efficient order management and a user-friendly interface.
- I designed a **Card Game in C++**, leveraging **object-oriented design principles** and **standard template libraries** to implement key gameplay components like the Deck, Chain, and TradeArea.
- I also built an **Algorithm Solver Website** using **PHP**, which integrates **Big-O analysis** to optimize equation-solving processes.

Additionally, my role as **Junior Communications Officer** at the University of Ottawa's Faculty of Health Sciences has honed my **communication** and **collaboration** skills. I have managed digital content creation, streamlined marketing workflows, and improved engagement strategies. This experience, combined with my technical expertise, positions me to contribute effectively to both development and cross-functional projects within your team.

I am particularly excited about the opportunity to apply my **programming skills** and continue learning in a hands-on environment. I am confident that my background, technical abilities, and strong problem-solving mindset will allow me to make valuable contributions to your team.

Thank you for considering my application. I look forward to the opportunity to discuss how I can contribute to your organization. I am available for an interview at your earliest convenience and can be reached at **seifeddine.reguige@icloud.com**.

Sincerely,  
**SEIFEDDINE REGUIGE**