Saad Qamar

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EDUCATION

Bachelor of Science, Major in Computer Science, 4th year – *Carleton University*   Expected Dec 2023
- General In-Course Scholarship (2019)
- CU Alumni Assoc Award (2021)
- GPA: 3.3

CORE COMPETENCIES

Programming Languages: C#, C, C++ (Qt), Java, Python, SQL, Kotlin, NodeJS, JavaScript, React
Developer Tools: Eclipse, IntelliJ, PyCharm, Visual Studio Code, Android Studio
Operating Systems: Linux, Ubuntu, QNX, Microsoft Windows
Other Skills: Jira, Confluence, Outlook, Git

WORK EXPERIENCE

Software Developer, Ford Motor Company | Ottawa, ON   May 2022 – December 2022
- Spearheaded the development and execution of sophisticated features for a cutting-edge 3D Android application, leveraging expertise in **Kotlin** and **C++**.
- Strengthened vehicular integration of the application by facilitating a comprehensive understanding of CAN single connection and TPMS connection services among hardware teams.
- **Amplified the application's efficiency by a remarkable 50%**, achieved through strategic collaboration with development teams and introducing a groundbreaking proof of concept.
- Fostered seamless interdepartmental collaboration among diverse teams including hardware specialists and UX designers, ensuring successful integration and operational excellence of the 3D Android application in the **Unreal Engine** ecosystem.

Software Engineer, uOttawa Department of Family Medicine | *Ottawa, ON*   September 2021 – December 2021
- Orchestrated the design and deployment of a pioneering **3D Virtual Reality application**, employing **C#** to visualize next-generation simulation scenarios intended for revolutionary advancements in education methodologies.
- Achieved a significant **reduction of 50ms in average response time** by implementing avant-garde data structures and algorithms, culminating in a superior user experience marked by unrivaled efficiency.
- Seamlessly integrated the application with cutting-edge technology like **Oculus VR devices**, ensuring a fully immersive, interactive, and high-performance user experience using **Unity**.
- Integrated features such as hand tracking and **real-time spatial rendering**, further enhancing the VR application's depth and functionality.

QA Analyst, Dominion Voting Systems | *Toronto, ON*   June 2021- August 2021
- Pioneered **Python-driven automation scripts** for bespoke configurations of **Microsoft SQL servers**, slashing manual labor by 80% and boosting efficiency.
- Designed and executed a comprehensive suite of test cases, focusing on **C++ applications**, enhancing their reliability through meticulous regression, functional, and data testing.
- Leveraged **Jira** and **Confluence** for effective cross-team collaboration, embedding Python scripting, SQL server configurations, and C++ application testing within a Scrum-based software development lifecycle.

PROJECTS

Interactive Robot Application   January 2021
- Constructed an interactive application in C using Linux with **TCP servers**, allowing the user to spawn robots that move around the screen without crashing into each other or the walls.
- **Debugged** the program using **Val Grind**.

LEADERSHIP EXPERIENCES

Operations Manager, Carleton Web Dev Club | *Carleton University*   September 2020 – January 2021
- Established yearly goals and targets for improvement, **achieving 70%** of said targets.
- Developed communication strategies and assessed their effectiveness through **KPIs**.