Arfaz Hossain

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October 9, 2023

QuadReal Property Group
Division: Human Resources
Calgary, Alberta

Dear Hiring Manager:

I am writing to apply for the Service Delivery Co-op Student at QuadReal. As someone who is always eager to learn and grow in my field, I believe that this is an excellent opportunity to gain valuable experience and enhance my skills in software development and testing.

I have a fascination for developing web, desktop and mobile applications, and I am continually learning skills through my personal interests and hobby projects outside school. I have been involved in more than 10 software development projects, which ranges from developing an iOS weather application, graphical simulations and gaming projects in OpenGL, C++ and C#, to web development projects mostly in JavaScript, TypeScript, React and Redux. During my first year, I gained valuable experience in the food and beverage industry by working as a customer service representative and grocery clerk. I have also been an active member in the UVic Engineering Students Society (ESS) and UVic Rocketry club (UVR) and have volunteered in multiple events, engaged in development projects throughout my time.

Currently I am a second-year student studying software engineering, where I have had the chance to learn the programming fundamentals, software development concepts, data structures and algorithms. I have a strong understanding in Object Oriented Programming (OOP) standards and have frequently used it in my personal gaming projects in C# and Unity. In addition to my academic pursuits and personal projects, I actively contribute to the UVic Rocketry Ground Support team as a front-end developer. I am familiar with writing queries and designing database schema in SQL and NoSQL Databases and have used tools like MySQL and Mongoose in my projects. I am also familiar with testing tools such as Selenium, JUnit, Maven, Gradle, and have experience in writing unit and integration testing. I am also very familiar with Agile Mythologies and have used ticketing and CI/CD tools like Jira and Kanban. I am adaptable and always eager to learn and am confident that I can quickly gain familiarity with any new tools or techniques necessary to excel in this role.

Given my current work-term setup, I am available for a 4- or an 8-month work term and would be open to the possibility of participating in two consecutive terms. Thank you for considering my application. I look forward to the opportunity to further discuss my skills and experience with QuadReal.

Most Sincerely,

Arfaz Hussain

Arfaz Hossain (He/Him)
2nd Year Software Engineering Student,
University Of Victoria

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EDUCATION

University of Victoria
Bachelor of Engineering (B.E.) in Software Engineering   **Sep 2021 – Present**

PERSONAL PROJECTS

Web Development Projects
TypeScript, JavaScript, React, SQL, MongoDB, HTML/CSS

Ground Support System   **Jan 2023 – Current**
github.com/UVicRocketry/Ground-Support
▸ Developing and designing components in TypeScript using React framework, MongoDB and SQL (postgres)

Portfolio Website (www.arfazhxss.com)   **Sep 2022 – Mar 2023**
github.com/arfazhxss/portfolio-website
▸ Utilized HTML, CSS, JavaScript, jQuery for design and development, deployed using netlify

Mobile Development Projects
Swift (Programming Language)

Weather App   **Mar 2023 – May 2023**
github.com/arfazhxss/weatherappvariants
▸ Developed an iOS application utilizing OpenWeather API for providing real-time location-based weather data

Embedded, Graphics and Command Line Projects
Java, C, C++, OpenGL

Rubik's Cube (C++, OpenGL)   **Feb 2023 – May 2023**
github.com/arfazhxss/opengl
▸ Developed a 3D simulation utilizing OpenGL libraries *GLUT*, *GLFW* and *GLM* for mathematical operations, contexts and *GLSL Shader Language* for graphics rendering, manipulation

Autonomous Robot (C, RobotC Library)   **Jan 2023 – Mar 2023**
github.com/arfazhxss/robotc
▸ Tested motor, sensor and infrared receiver inputs and developed C scripts for accurate movement and effective signal tracking and automation

Tic Tac Toe (C++)   **Oct 2022**
github.com/arfazhxss/miniprojects
▸ Implemented a command-line game featuring a 3×3 grid, two players (X and O), some conditional logic

T-Rex Game (Java)   **Aug 2022 – Oct 2022**
github.com/arfazhxss/t-rex
▸ Developed a 2D game utilizing object-oriented principles, *Java Swing* library for graphical user interface

WORK AND VOLUNTEERING EXPERIENCE

Software Engineer | University of Victoria Rocketry   **Mar 2023 – Present**
▸ Implementing React components on Xenia-1 (Rocket) based on Figma designs, utilizing PostgreSQL and MongoDB for backend database management.

Graphics Coordinator | UVic Engineering Students' Society   **Jan 2023 – Present**
▸ Designing visual resources for posters, social media posts, among other promotional materials, while managing office hours to ensure the availability of the student lounge.

Customer Service Desk, Grocery Clerk | Save-On-Foods   **Apr 2022 – Oct 2022**
▸ Worked in a team of 6 to 12 members, overseeing store operations, ensuring daily needs were met with demonstrated exceptional customer service by addressing 50 inquiries per shift, achieving a 96% satisfaction rate, while efficiently managing inventory with accurate records and timely merchandise management.

<u>Other Experiences</u>: **Customer Service (Tim Hortons), Rescue Volunteer (Bangladesh Animal Welfare Organization)**

SKILLS

Programming Languages: C, C++, Java, Python, Kotlin, HTML/CSS, JavaScript, Swift, Bash
Frameworks and Libraries: React, jQuery, JUnit, Gradle/Maven
Graphics API: Vulkan, OpenGL, WebGL, OpenXR **Databases**: MongoDB, MySQL
Miscellaneous Tools: Git, Linux (Fedora), IntelliJ, Android Studio, XCode

Letter of recommendation

Dear whom it may concern,

Arfaz Hussain stands out as an exceptionally gifted graphics renderer, showcasing a level of talent that is truly remarkable. His professionalism is unwavering, and he consistently follows through on his commitments. Arfaz is adept at setting achievable goals and accomplishing them with remarkable speed. His kindness and swift learning capacity make him an ideal fit for any team and organizational culture. I eagerly anticipate the evolution of his engineering skills, particularly in rendering pipeline, GLSL, and his foundational understanding of Vulkan, as of September 2023. I have every confidence that his true worth far exceeds any self-assessment he may provide. I eagerly look forward to the possibility of collaborating with him on future projects.

Best regards,

David Kim

Ex-CTO Dream eliXR

September 21st, 2023