

Farhan Rahman Khan

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🎓 Education

Bachelor of Science – Major in Computer Science

Memorial University of Newfoundland

2021 – Present

- > Recipient of \$12,000 International Undergraduate Student Scholarship
- > Awarded Faculty of Science Dean's List 2023-24

⚙️ Skills

Programming Languages Python, Java, JavaScript, C, C++, C#, HTML, CSS, SQLite

Development Tools pandas, TensorFlow, scikit-learn, vtk, openCV, unittest, Git, GitHub, GitLab, Agile, Unity, Blender

IDEs Visual Studio Code, BlueJ, PyCharm, Eclipse, IntelliJ IDEA, Jupyter Notebook

Professional Competencies Teamwork, Leadership, Adaptability, Creativity, Attention to Detail

👜 Experience

Software Engineer Intern

Xplorobot

Jan 2024 – Apr 2024

- > Collaborated on a state-of-the-art project overlaying scans on 3D images indicating methane leaks, aiding environmental analysis.
- > Designed and implemented algorithms in C++ and Python to enhance the quality of 3-dimensional model generation from images.
- > Achieved better generated 3D models utilizing libraries such as VTK, Open3D, and PyMeshLab, among others.
- > Pioneered the creation of innovative algorithms by conducting in-depth research and development.

Tutor

Memorial University of Newfoundland

May 2023 – Present

- > Provided tutoring services to students for academic courses and assisted in exam preparation.
- > Topics ranged from programming languages to Software Development, Machine Learning, and Data Mining and Manipulation.

Bartender and Server

Gingergrass and The Rose & Thistle

Apr 2023 – Present

- > Managed drink service for 2 bars and food service for 14 tables with exceptional multitasking and customer service skills.

🔗 Projects

GestoVision

Academic Group Project

Fall 2023

- > Created a real-time ASL hand gesture recognition application, employing scikit-learn for model training in Python.
- > Achieved accurate landmark mapping with live hand detection utilizing MediaPipe.
- > Obtained detailed images by applying pre-processing and image manipulation techniques to the live feed captured with OpenCV.

BOB

Personal Group Project

Summer 2023

- > Bob is a ChatBot built in Python with Tkinter for a sleek GUI and NLTK for advanced natural language processing.
- > Integrates real-time data for up-to-date cybersecurity information and awareness.

Can't Stop!

Academic Group Project

Winter 2023

- > Developed an object-oriented game in Java iteratively, maintaining the use of use case scenarios and sequence diagrams.
- > Implemented OOP principles (polymorphism, encapsulation, abstraction), which played a significant role in the project's success.
- > Collaborated on a cohesive and low-coupled code, and designed AI players with levels of difficulty.
- > Authored a comprehensive document detailing prospective networking components for the project.

Portfolio Website

Personal Project

Summer 2023

- > Designed and developed a portfolio website detailing my skills, projects, and accomplishments using HTML, CSS, and JavaScript.

👤 Roles

Vice President

Curtis House Council

Sept 2022 – Apr 2023

- > Coordinated over 20 events, fostered community growth, and facilitated weekly meetings.
- > Actively took part in resolving conflicts, mentoring peers, and providing counseling in the university dormitory.