MADIHA INAYAT

Computer Engineer | Software Developer

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EDUCATION

Bachelor of Engineering (Co-Op)   **Jan 2019 – May 2023**
Memorial University of Newfoundland, St. John's, NL
Major in **Computer Engineering**

SKILLS

Languages: JavaScript, HTML, CSS, MATLAB, Java, Python, C#, C/C++
Frameworks/Library: jQuery, D3.js, Bootstrap, React, SFML
Development Tools: Git, Visual Studio Code, Eclipse, Browser Developer Tools, Bash
OS: Windows, Linux

EXPERIENCE

Software Developer (Co-op)   **Jan 2022 – Apr 2022**
National Research Council of Canada, Ottawa, ON
- Enhanced performance and functionality on multiple dashboards by fixing bugs and implementing new features.
- Conducted rigorous quality testing to ensure seamless website functionality across various browsers.
- Demonstrated expertise in working with REST APIs and Browser Developer Tools to optimize website performance.
  Skills: HTML, CSS, JS, jQuery, D3.js, GitLab, REST APIs, Communication, Problem solving

Research Assistant (Part- time)   **Sep 2021 – Dec 2021**
Memorial University of Newfoundland, St. John's, NL
- Conducted an independent research study on Neural Networks and their applications.
- Designed a character recognition model using the EMNIST dataset with more than 80 percent accuracy in Python.
  Skills: Python, Keras, VS Code, Machine learning, Supervised learning

Website Developer (Co-op)   **May 2021 – Aug 2021**
Memorial University of Newfoundland, St. John's, NL
- Developed webpages for prominent MUN research facilities, elevating their online presence and user experience.
- Updated and enhanced the Engineering Research website, ensuring it remained current and visually appealing.
- Successfully gathered and efficiently managed critical research lab information from over 40 engineering professors
  Skills: HTML, CSS, JS, VS Code, Bootstrap, Web CMS – MUN Site Builder, Microsoft Office Suite

Computer Engineering Research Assistant (Co-op)   **Sep 2020 – Dec 2020**
Memorial University of Newfoundland, St. John's, NL
- Designed five MATLAB-based labs for the second-year course ECE 4600 – Introduction to Signals and Systems
- Formulated over 50 programming exercises for signal processing, Fourier analysis, Laplace transform and its applications.
  Skills: MATLAB, Microsoft Office Suite, Communication, Problem solving

RELEVANT PROJECTS

Killick-1 CubeSat Project (Capstone)   **May 2022 – Apr 2023**
Canadian Space Agency and C-CORE, St. John's, NL
- Contributed to the development and pre-launch testing of the satellite's Mission Control Software (MCS). More Info
  Skills: C/C++, Unit Testing, System Testing, GitLab CI/CD, Bash scripting

Personal Portfolio Website - https://minayat911.github.io   **Jan 2023 – Apr 2023**
- Personal portfolio website developed using HTML, CSS, and JS.

2D Platformer Game – Mad Wizard Adventure   **Nov 2022 – Dec 2022**
- Developed using SFML (Simple and Fast Multimedia Library) and C++ for a course group project. Game Trailer