Parham Esmaeily

Montreal, QC, Canadian Citizen | LinkedIn - parhamesmaeily

EDUCATION

Concordia University   **Montreal QC**

B.Sc. Computer Science   *Graduation date 2025*

WORK EXPERIENCE

CAE   **Montreal, QC**

Back-End Mixed Reality Developer   *Sep 2022 - Jan 2023*

• Contributed to the development of RTS and IG software by adding multiple features, such as repositioning models and viewpoints, searching google maps coordinates from app, sorting data and displaying them correctly by using JTables and windowBuilder, enhanced the accuracy of the Fog IG simulation and Added presets and live measurements to fog panel.

• Demonstrated understanding of communication protocols between different programming languages by implementing opcodes to send and receive information between Java and C++ programs.

• Debugged and resolved delays, ensuring efficient and reliable software performance by developing a new solution and improving load time over 50%

• Demonstrated strong communication skills and teamwork by successfully updating colleagues daily on project updates and progress.

• Showcased monthly features and development to team members, highlighting changes and updates.

• Utilized Jira and SmartGit tools to manage and update project tasks efficiently and effectively, ensuring timely completion and delivery of project milestones.

Space Concordia Rocketry   **Montreal, QC**

Avionics Member   Jan 2021 - Jan 2022

• Setup and maintain programming environment (MCUXpresso IDE/Embedded_studio) for J-Link Debug

• Research and choose specific components for High Altitude Balloon testing. Gather information related to Wind, GPS, Humidity, and Temperature to have data for the Rocket launch recovery.

PROJECT EXPERIENCE

Java

• Created a 2D snake and Ladder game from scratch with unique skills and abilities (1500+ lines)

• Data Structures and Algorithms: min-max Heap implementations, sorting algorithms, LinkedLists, Object oriented analysis, design and development using UML and Big-O calculations

• Reading and writing to text files with HTML code to display data from excel sheets in Java.

• Fibonacci calculators using Binary and Linear algorithms

HTML, CSS, JS, PHP

• *Website:* parhamesmaeily.com All program files are created from scratch.

SKILLS

Java, Html, JS, PHP, C# and Unity, C++, R Software/Language, Embedded Software (Raspberry pi)

LANGUAGES & WRITING

• English (Native) • French (Basic communication knowledge) • Persian (Native)