

# Mehdi Esmaeilzadeh

2401-900 Carnarvon Street, New Westminster, British Columbia, Canada

☎ (+1) 236-788-7346 | ✉ mehdi.esma79@gmail.com | 🏠 mehdi79.github.io/MyPortfolio/ | 🔗 linkedin.com/in/mehdi-esmaeilzadeh

## Education

### Simon Fraser University

Vancouver, BC, Canada

BACHELOR OF SCIENCE IN COMPUTING SCIENCE

09/2019 – 04/2023

- Cumulative GPA: 3.89/4.33
- Completed advanced coursework in machine learning, algorithms, and distributed systems.

## Research Experience

### Department of Computing Science, Simon Fraser University

Vancouver, BC

RESEARCH ASSISTANT

10/2022 – Present

- Conducted research under Dr. Ke Li, focusing on Generative Modeling and 3D Point Cloud Up sampling.
- Integrated IMLE (Implicit Maximum Likelihood Estimation) with generative models to enhance model accuracy and performance.
- Presented research findings at the SFU Research Symposium; actively collaborating on a publication targeted for Spring 2025.

## Professional Experience

### Mobin Afagh Pars (MAPCO)

Fars, Shiraz

SOFTWARE ENGINEER

May, 2023 - PRESENT

- Contributed to multiple software development projects, including designing and programming an industrial grease machine, and streamlining manufacturing processes.
- Optimized software solutions, resulting in improved operational efficiency and measurable business growth.
- Collaborated with cross-functional teams to ensure the delivery of high-quality software solutions tailored to client and business needs.

## Honors & Awards

2022	<b>Recipient</b> , Scotiabank Student Scholarship for outstanding volunteer service involvement	SFU
2022	<b>Recipient</b> , President's Honour Roll	SFU
2022	<b>Recipient</b> , SFU Alumni Scholarship for excellent academic performance	SFU
2021 - 2022	<b>Recipient</b> , Dean's Honour Roll	SFU
2021 - 2022	<b>Recipient</b> , Undergraduate Open Scholarship for maintaining a CGPA of 3.67 or higher with at least 30 standard graded units	SFU
2021	<b>Top 5% Achiever</b> , Top 5% in Faculty of Applied Sciences	SFU
2020	<b>Recipient</b> , International Summit Scholarship (Transfer) for maintaining a CGPA of 3.70 or higher	SFU

## Presentation

### SFU Research Symposium

Simon Fraser University

PRESENTER FOR "ENHANCING POINT CLOUD UPSAMPLING THROUGH IMLE INTEGRATION IN GENERATIVE MODELS"

Spring 2024

- Presented a poster and gave a talk on innovative approaches to point cloud upsampling using IMLE integration in generative models.
- Interacted with attendees who asked insightful questions, such as the practical applications and potential use cases of the proposed methods.

## Teaching Experience

### Department of Computing Science, SFU

Burnaby, BC, Canada

CS PEER TUTOR

Jan. 2022 – May 2023

- Tutored over 140 hours across five computer science courses, aiding students in mastering concepts and improving problem-solving skills.
- Facilitated student engagement, leading to significant improvements in academic performance.

## Skills

**Programs** Visual Studio, VMware, Microsoft SQL, Git, Linux/Unix, Bash, GDB, Valgrind, CMake  
**Languages** C/C++, Pytorch, HTML & CSS, Node.js, JavaScript, Java, Python, SQL