

Education

M.Sc. Computer Science

September 2024 – March 2026

CGPA: 3.85 / 4.3

Concordia University

B.Sc. Computer Engineering

September 2019 – February 2024

CGPA: 3.33 / 4.00

Isfahan University of Technology

Experience

Research Assistant

September 2024 – March 2026

Concordia University

- Led the development of VSR-Bench, a novel browser-native platform for real-time video super-resolution (VSR) evaluation over WebRTC, achieving 3 ms/frame at 1080p
- Proposed and integrated a Proximal Policy Optimization (PPO)-based adaptive model selection strategy, reducing GPU computational load by 45.1% during real-time streaming
- Analyzed system-level performance trade-offs across multi-threaded and GPU-accelerated pipelines to optimize latency and throughput in browser environments

Software Developer

February 2022 – September 2022

Partak System Vira

- Built and maintained an enterprise email monitoring dashboard using NestJS (Node.js framework), serving 1,000+ active users
- Designed and managed database schemas using TypeORM, and developed RESTful APIs for efficient data access and manipulation
- Engineered a C++ CCTV video server supporting real-time streaming for up to 10 concurrent streams

Technical Skills

Programming	C/C++, Python, JavaScript, Node.js
AI & ML	PyTorch, TensorFlow.js
Multimedia & Systems	WebRTC, FFmpeg, WebGPU
Developer Tools	Git, Docker
Operating Systems	Linux, Windows

Selected Projects

VSR-Bench – Browser-Native Real-Time Video Super-Resolution Platform ([GitHub](#))

August 2024 – December 2025

- Implemented a browser-based VSR evaluation system using WebRTC with configurable codec parameters and end-to-end network performance instrumentation
- Engineered GPU-accelerated inference pipelines using WebGL/WebGPU and Web Workers for parallel execution in real-time streaming scenarios

Multimedia Video Server ([GitHub](#))

April 2022 – September 2022

- Implemented a low-latency video broadcasting server for CCTV systems
- Optimized real-time streaming performance using FFmpeg APIs

Publications

VSR-Bench: An Open-Source Platform for Browser-Native Real-Time VSR Evaluation in WebRTC

ACM MMSys 2026

- **Matin Fazel**, Abdelhak Bentaleb
- [Paper](#)

More Pixels, Less Bandwidth: A Live Demo of VSR-Bench over WebRTC

ACM MMSys 2026

- **Matin Fazel**, Abdelhak Bentaleb
- [Paper](#)

Competitions & Achievements

The Eleventh NTIRE 2026 Efficient Super-Resolution Challenge

CVPR Workshops 2026

- Proposed *RFDN-SPAN: Improving Efficiency with Parameter-Free Attention* (Team IN2GM)
- Ranked **7th place**
- [Challenge Report](#) [Code](#)

Scholarships & Awards

Best Demo Paper Award

April 2026

ACM MMSys 2026

- Awarded for “More Pixels, Less Bandwidth: A Live Demo of VSR-Bench over WebRTC”

Concordia Merit Scholarship

September 2024

Concordia University

- Value: \$5,000 CAD

Languages

English	IELTS (Taken on September 6th, 2023)
Overall 7.0	L: 7.0, R: 6.5, S: 7.0, W: 6.5
French	A2

Online Certifications

Improving Deep Neural Networks: Hyperparameter Tuning and Optimization

August 2021

Coursera

[Show credential](#)

Structuring Machine Learning Projects

August 2021

Coursera

[Show credential](#)

Neural Networks and Deep Learning

July 2021

Coursera

[Show credential](#)