

## EDUCATION

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- **Concordia University** Montreal, QC  
*PhD in Electrical and Computer Engineering* May 2024 – Present
- **Concordia University** Montreal, QC  
*MSc in Electrical and Computer Engineering* Sept. 2023 – Apr. 2024
  - **Thesis:** MedCLIP-SAM: Bridging Text and Image towards Universal Medical Image Segmentation
  - **Relevant Courses:** Medical Image Processing, Applied Machine Learning and Evolutionary Algorithms, Biological Signal Processing, Deep Learning
- **American University of Beirut** Beirut, Lebanon  
*BEng in Computer Engineering; Minor in Economics; GPA: 4.0/4.0; High Distinction* Aug. 2019 – May 2023
  - **Thesis:** Covid-19 Indoor Access Rules Verification using ML (Won Dean's Award for Creative Achievement)
  - **Relevant Courses:** Introduction to Machine Learning, Cryptography and Network Security, Software Engineering, Advanced Optimization Techniques

## EXPERIENCE

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- **Artificial Intelligence Engineer** Apr. 2024 – Present  
*Radical AI* New York, USA
  - **Dev Environment:** Leveraging technologies such as OpenAI and Google Gemini for developing AI tools
  - **Workflows:** Developing ReX, an AI Coach who serves as a steadfast career companion for learners, offering personalized coaching, mentorship, and support throughout the various phases of their career lifecycle
- **Graduate Research & Teaching Assistant** Sep. 2023 – Present  
*Concordia University; IMPACT and Health-X Labs* Montreal, QC
  - **Research Objective:** Investigating novel methodologies for Deep Learning in Medical Applications
  - **Model Training:** Implementing Multimodal Language-Image Networks for Biomedical Data Representation
  - **Image Segmentation:** Developing data-efficient segmentation methods for medical images through pseudo-masks
- **Research Intern** May 2022 – Oct. 2022  
*Queensland University of Technology; Trusted Networks Lab* Brisbane, Australia
  - **Research Objective:** Developing a novel Consensus Protocol for Supply Chain Scenarios utilizing Email services
  - **Application Development:** Developing a dApp integrating Email services with deployed Solidity Smart Contracts to automate the voting process

## PUBLICATIONS

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- Koleilat, T., Asgariandehkordi, H., Rivaz, H., Xiao, Y. (2024). MedCLIP-SAM: Bridging Text and Image Towards Universal Medical Image Segmentation. The 27th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI):

## PROJECTS

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- **AUBCOVAX:** Developed an Android mobile application using Android Studio and Java to handle COVID-19 data for faculty, staff, and students through MongoDB.
- **ChainMed:** Implemented a secure medical record system using IPFS and Quorum Blockchain, ensuring confidentiality through encryption protocols, integrity, and availability of EMR's through decentralization.
- **Facial Expression Recognition:** Implemented explainable emotion recognition, utilizing techniques like Shapley value interpretation. Deployed on OpenCV for Real-time Recognition via a Python Flask Web Server.

## SKILLS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, Solidity, R,  $\text{\LaTeX}$

**Frameworks:** PyTorch, TensorFlow, Django, Flask

**Developer Tools:** Git, Docker, Google Cloud Platform, Overleaf, Visual Studio, PyCharm, IntelliJ, Eclipse, Excel

**Libraries:** OpenCV, Scikit-learn, pandas, NumPy, Matplotlib