

# FAYCAL KILALI

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## TECHNICAL SKILLS

**Programming** Python, Java, BASH, MBScript, C, MIPS Assembly;

**Technologies** Azure, Git, Linux, Windows, LaTeX;

**Domains** Machine Learning, Logical Agents, Algorithm Analysis, GIS, Systems Programming, Digital Signals and Processing;

**Languages** English (Native), Standard Arabic (Professional), Saudi Arabic (Professional), Dar-ija (Native);

**Paradigms** Object-Oriented Programming (OOP), Parallel Processing, Dynamic Programming, Procedural, Logic;

**Mathematical** Advanced Calculus, Linear Algebra, Mathematical Modeling, Probability and Statistics, Discrete Structures, Real Analysis, Modern Algebra, Algorithm Analysis, Data Structures, Propositional Logic, Classical Physics, Modern Physics.

## EDUCATION

**MOUNT ALLISON UNIVERSITY** | *B.Sc. (Hons) Computer Science and Mathematics* 2022–Present

- Research Focus: AI Systems, Digital Twin Development, Mathematical Modeling.

## RESEARCH & TECHNICAL EXPERIENCE

**MOUNT ALLISON UNIVERSITY**

Sackville, NB

**Lead Full-Stack Software Developer**

May 2024 – Sep 2024

- Designed and implemented a robust object detection framework with an interactive educational game using YOLOv10, Flask, Tkinter, and Streamlit;
- Oversaw all phases of project lifecycle, from conception to deployment, ensuring timely delivery and adherence to budget constraints.

**Technical Lead - Moving Forward Co-Operative**

Jan 2023 – Jul 2023

- Spearheaded technical operations for a non-profit organization, overseeing data gathering, mapping, and software development to optimize impact and further mission;
- Led a team of volunteers and staff members, fostering a positive and productive work environment that facilitated effective project delivery and stakeholder engagement.

## LEADERSHIP & RESEARCH ACTIVITIES

- Founder & President, Robotics & AI Society: Leading interdisciplinary projects in AI and robotics;
- Developed and documented over 600 mathematical proofs, demonstrating strong analytical and logical skills;
- Mathematics and Computer Science Peer Tutor: Mentored 50+ students in University.

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Machine Learning with Python - IBM, Coursera (2024): Focus on ML Techniques;
- Object-Oriented Design - University of Alberta (2024): OOP Paradigm;
- Microsoft Learn AI Skills Challenge (2023): Emphasis on practical AI implementation through Microsoft Azure platform.