

Faycal Kilali

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Skills

Programming: Python, Java, BASH, MBScript, C, MIPS Assembly, LaTeX, Git;

Technologies: Azure, Linux, Windows;

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

Languages: English (Native), Standard Arabic (Professional), Saudi Arabic (Professional), Darija (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.

Experience

Lead Full-Stack Software Developer, Mount Allison University – Sackville, NB May 2024 – Sep 2024

- Led development of a grant funded project implementing an AI-based object detection framework;
- Designed and implemented educational tool using Flask, Tkinter, and Streamlit, enhancing user engagement;
- Managed project from conception to deployment, ensuring timely delivery and adherence to budget constraints.

Mathematics and Computer Science Peer Tutor, Mount Allison University – Sackville, NB Mar 2023 – Sep 2024

- Tutored 50+ students across various mathematical subjects, developing customized teaching approaches;
- Demonstrated proficiency in teaching and problem-solving, resulting in positive feedback from both students and professors.

Technical Lead, Moving Forward Co-Operative – Dorchester, NB 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;
- Collaborated cross-functionally to integrate technical solutions with broader strategic goals and non-profit values, ensuring that all projects aligned with organizational priorities;
- Led a team of volunteers and staff members, fostering a positive and productive work environment that facilitated effective project delivery and stakeholder engagement.

Projects

Medieval Conquests 2016 – 2019

- Founded and led a successful Medieval-era module for the popular game "Mount & Blade: Warband," managing a team of volunteer testers and contributors for over a year and a half, achieving a 92% rating on Steam;
- Spearheaded the implementation of a wide range of features, including enhanced combat fidelity, improved graphics, and engaging gameplay mechanics, resulting in over 120,000 unique active subscribers and 500,000 unique visitors.

Tainted Paths 2018 – 2019

- Founded, led development of, and managed diverse team of volunteers for mapping, modeling, and testing for the project;
- Achieved impressive results with over 203,000+ unique visitors 34,000+ unique active subscribers, and a positive rating of around 90% in Steam.

Floris Evolved 2015 – 2016

- Co-developed and Co-founded major game overhaul with 160,000+ active subscribers and over 600,000 unique visitors across platforms;
- Managed all aspects of the project, including technical development, project management, and team leadership, culminating to a 95% positive rating on Steam.

Education

Mount Allison University – B.Sc. (Hons) Computer Science and Mathematics	2022 – Present
<ul style="list-style-type: none">• Founded and serving as President of Robotics & AI Society;• Co-Founded and serving as Vice President of the Mature Students Club.	

Transferable Skills

Leadership: Led multiple successful open-source projects and technical teams;
Communication: Effectively tutored and mentored 50+ students in complex technical subjects;
Project Management: Managed complex projects from conception to deployment;
Problem Solving: Developed innovative solutions for technical challenges across various platforms.

Certifications

Machine Learning with Python – IBM, Coursera	2024
Object-Oriented Design – University of Alberta, Coursera	2024
Microsoft Learn AI Skills Challenge	2023

Accomplishments

- Achieved elite top 100 ranking among 20+ million players in League of Legends (EUW), placing in the top 0.001% globally, demonstrating:
 - Exceptional strategic decision-making under intense time pressure and extreme conditions;;
 - Advanced team leadership and coordination in high-stakes environments;
 - Ability to maintain peak performance consistently at professional competitive levels;
 - Rapid adaptation to changing situations and meta-strategy evolution;
 - Dedication to continuous improvement through detailed performance analysis and practice.
- Led development of three major gaming projects with cumulative impact of:
 - 314,000+ active subscribers across platforms demonstrating product-market fit;
 - 1.3+ million unique visitors showing broad market reach;
 - 92-95% positive ratings indicating exceptional quality control;
 - Successfully managed distributed teams of volunteers across multiple years;
 - Implemented complex systems including gameplay mechanics, assets, and network ability.
- Demonstrated exceptional self-learning capabilities by mastering English from the age of 12 and advanced mathematics prior to University, showcasing strong autodidactic abilities and intellectual drive;
- Founded and serving as the President of the Robotics & AI Society, leading interdisciplinary collaboration in AI and robotics technologies;
- Developed advanced proficiency in Pure Mathematics through self-study, proving over 600 mathematical propositions using logical reasoning and critical thinking abilities;
- Successfully identified and capitalized on emerging technology trends through early adoption and long-term strategic planning, resulting in significant returns;
- Co-Founded and serving as the Vice President of the Mature Students Club, one of the most active and largest clubs at Mount Allison University.