

Ahmed Imed Eddine Rabah

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SUMMARY

Passionate Computer Science Lecturer and Artificial Intelligence Engineer with solid experience in teaching, research, and technology. Skilled in programming (Python, Java, SQL), web development, databases, and networking, with proven ability to design engaging courses and simplify complex concepts. Experienced in both academic and industry environments, combining pedagogy, leadership, and technical expertise to inspire students and support their success.

WORK EXPERIENCE

Computer Science Lecturer - Collège de Maisonneuve September 2024 – Present

- Prepare and deliver courses in computer science (programming, databases, web development, algorithms, etc.) in accordance with the College's academic framework.
- Design pedagogical materials (presentations, exercises, labs, projects, exams) fostering active learning.
- Adapt teaching to the needs and pace of students in regular and continuing education.
- Strong expertise in core computer science concepts: object-oriented programming, web development, databases, and systems.
- Ability to simplify complex topics and spark students' interest.

Senior Apple Advisor - Best Buy September 2023 – July 2024

- Main point of contact for customers seeking expert advice on Apple products.
- Delivered exceptional customer experiences while consistently exceeding sales targets.
- Provided leadership by training and mentoring new advisors on Apple products and policies.

Teaching Assistant - Université de Montréal January 2022 – May 2024

- Assisted in teaching multiple computer science courses:
 - IFT2935 – Databases
 - IFT3335 – Introduction to Artificial Intelligence
 - IFT2830 – Computer Systems Security
- Supported students with coursework, labs, and exam preparation.

President & Founder - CNFP – Scientific Student Club February 2017 – September 2021

- Organized all scientific, cultural, and sports events.
- Supervised scientific and cultural activities.
- Designed organizational structure, created teams, and appointed representatives and executives.

EDUCATION

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| August 2021 – July 2024 | Master's Degree in Computer Science – Artificial Intelligence at Université de Montréal |
| September 2018 – July 2020 | Master's Degree in Information Systems & Web Technologies at Université d'Oran 1 Ahmed Ben Bella |
| September 2015 – July 2018 | Bachelor's Degree in Information Systems at Université d'Oran 1 Ahmed Ben Bella |

SKILLS

- Communication & Pedagogy
- Microsoft Office (8 years)
- Web Development (8 years)
- Programming: Python, Java, SQL, MongoDB (10 years)
- Artificial Intelligence (4 years)
- Project Management
- Team Leadership (7 years)

PUBLICATIONS

HarmonyCo: Development of a Python Library for Optimized Computation of the Median

- Implemented multiple exact and heuristic algorithms for median permutation computation.
- Conducted efficiency analysis and performance optimization.
- Authored full documentation and tutorials for developers and researchers.
- Validated the library using real and synthetic datasets.

Sentiment Amplification on Social Media is Changing Our Emotional Landscape

- Explored the impact of social media on mental health and emotions using affective computing and sentiment analysis.
- Evaluated deep learning models for emotion recognition in images and music.
- Discussed implications for mental health monitoring and future research.

CrowdSyn: Crowdsourcing Platform for Building a Semantic Dictionary

- Designed and developed a hybrid human–machine architecture for semantic term extraction.
- Built a dictionary of terms, synonyms, and contextual claims.
- Created a crowdsourcing platform for semantic validation tasks.
- Conducted experimental evaluation and analysis of semantic similarity thresholds.