

Mohammed Hirez

Undergraduate AI & Machine Learning student, University of Limerick, building with LLMs and Python.

Limerick, Ireland · contact@mhirez.com · mhirez.com · linkedin.com/in/mhirez · +353 87 033 7471

I rebuilt UL's six-credit AI module from Julia to Python, teach it in the lab and lead peer-learning groups for first-year programmers, after leading the technical team of a Google Developer Student Club and mentoring at three education centres.

TEACHING & TECHNICAL DELIVERY AT THE UNIVERSITY OF LIMERICK

Teaching Assistant · CS4171 Programming for AI

Dept. of Computer Science & Information Systems · Sep 2026 – present

- Teach the weekly laboratories of a six-credit module covering numerical computing in NumPy, data preparation in pandas, visualisation, probability and simulation, matrix and neural-network operations, and model evaluation with scikit-learn.
- Take students from AI concepts to structured, working Python, giving individual instruction in debugging and algorithm implementation.

PSLG Leader · CS4141 Introduction to Programming

ICT Learning Centre · Sep 2026 – present

- Run weekly peer-led sessions in Java, computational thinking and problem solving for first-year students.
- Write the worked examples and exercises, using active learning so students trace execution, read compiler errors and debug their own programs.

Module Development Assistant · CS4171 Programming for AI

Dept. of Computer Science & Information Systems · Jun – Sep 2026

- Migrated the entire curriculum from Julia to Python, authoring the lectures, laboratory exercises, projects and every code example, and testing each for accuracy before release to students.

COMMUNITY BUILDING & AI EDUCATION

Technical Team Lead · Google Developer Student Club

- Ran the club's technical programme: workshops in AI, ML, computer vision, NLP, Android and Flutter.
- Recruited members, coached my successors, and took the club to two ICPC contests.

Android & AI Instructor · Russell Center for Gifted

- Designed and taught the IT Club syllabus across two cohorts: Android, Java, Kotlin, OOP and intro AI.
- Sat on the admissions panel choosing the final intake.

EDUCATION

BSc Artificial Intelligence & Machine Learning

University of Limerick · 2025 – present

Full scholarship. Grade A1, with Academic Achievement Recognition from the UL President.

CREDENTIALS

Data Science & ML Summer Program

MIT IDSS · Aug 2025 · 8.0 CEU

Python, statistics, clustering, PCA and t-SNE, regression.

Data Analytics Fellowship

Correlation One · 2023–24 · 14 weeks

Top 5%. Business cases in SQL, Python and Tableau.

AI COMPETITIONS

TechIreland National AI Challenge

Technovation Global Competition · recognised for AI innovation

Applied AI & Innovation Mentor · GIZ Techno Hara

- Carried teams from design thinking and field research to prototype, testing and exhibition.
- Taught Arduino, sensors, IoT and AI literacy to non-technical students.

AI Instructor · Ministry of Education

- Introduced more than sixty school students to AI in a national programme.
- Recognised by the Ministry's Undersecretary for the work.