

Kieran Horgan

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ACHIEVEMENTS

Represented Ireland internationally in competitive programming competitions, solving a set of problems quickly and efficiently using algorithms and data structures implemented with the C++ programming language.

International Olympiad in Informatics (IOI)

- Bronze medal x2 (2018, 2019) - First Irish medal winner since 2014.
- Team Ireland x4 (2016-2019) - Chosen as one of a team of 4 based on All-Ireland Olympiad results.

All-Ireland Programming Olympiad (AIPO)

- 1st place x2 (2018, 2019) - Won the national finals with scores of 795/800 and 600/600.
- 2nd place (2017), 8th place (2016) - Qualified for IOI selection camp from 2016 to 2019.

Collegiate Team Competitions

- UK and Ireland Programming Contest (UKIEPC) - 1st place (2019), 2nd place (2018)
- Irish Competitive Programming Competition (IrlCPC) - 1st place (2018), 2nd place (2017)

PROJECTS

AIPO Training Forums

- Developed an online forum where users could post formatted blogs and comments using:
 - Python for backend including user creation and authentication and database interaction,
 - MySQL for the database to store posts, comments and users,
 - Javascript for frontend including live markdown editor and AJAX for database interaction.

Personal Website - <https://kieranhorgan.ie>

- Created my personal portfolio using raw HTML and CSS, including a javascript-less navigation menu.
- I host all my online work on a linux Debian virtual hosted on Google's Cloud network using Apache.

Ultimate TicTacToe Game - <https://utictactoe.kieranhorgan.ie>

- Created a 2-player online game using Javascript, PHP and MySQL.

WORK EXPERIENCE

Mobile and Internet Systems Laboratory (MISL)

June 2019 – August 2019

Intern

UCC, Cork

- Implemented voice assistant functionality to an app with AWS Lambdas and Python.
- Worked on a C++ based 5G network simulator, refactoring the process scheduler to achieve a 1.3x speed-up.

Munster Programming Training (MPT)

September 2019 – February 2019

Tutor

UCC, Cork

- Taught problem-solving techniques, algorithms and data structures to a class of students in preparation for the All-Ireland Programming Competition.

EDUCATION

University College Cork

September 2019 – May 2020

BSc Computer Science - Incomplete

- Lab demonstrator for CS1202 (1st year Programming for Digital Humanities 1)