

Kieran Horgan

Github: github.com/KieranHorgan LinkedIn: linkedin.com/in/kieranjhorgan/

Email: kieranhorganmallow@gmail.com

I'm a first year student at University College Cork, an excellent problem solver with an aptitude for innovation and critical thinking. I've won awards at both national and international level for my problem-solving ability and knowledge of computer science, and am pursuing a degree in Computer Science.

CAREER HISTORY

Head Problem Setter/System Administrator, AIPO September 2019 - Present

- Managed the Contest Management System for monthly online contests for All-Ireland Programming Olympiad selection.
- Created algorithmic problems and corresponding graders and test data for the online rounds.

MPT Demonstrator, University College Cork October 2019 - Present

- As part of the Munster Programming Training program, taught problem-solving techniques, algorithms and data structures to a class of secondary school students in preparation for the All-Ireland Programming Olympiad.

Lab Demonstrator, University College Cork October 2019 - Present

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

Summer Intern, MISL Lab @ University College Cork Summer 2019

- Worked in C++ and Python to optimise performance of an mmwave (5G) network simulation in NS3.
- Investigated potential for parallelisation of the NS3 simulation and its effect on performance.
- Developed Amazon Alexa Skills echo devices in Python.

Mentor, CoderDojo Mallow (volunteer) January 2014 - June 2018

- Volunteered at my local coderdojo club teaching a class of young people aged 8 to 18 skills including HTML, CSS, Javascript, Java and Python.

Intern, Wall Web Design October 2016

- Worked on implementing experimental ideas as proofs of concept in CSS and Javascript.
-

AWARDS / ACHIEVEMENTS:

Algorithms / Data Structures

Won International Olympiad in Informatics (IOI) Bronze Medal x2 (2018,19)

Selected for Team Ireland at IOI x4 (2016-2019)

Won All-Ireland Programming Olympiad 1st place x2 (2018,19), came 2nd in 2017

Came 1st in Ireland (14th incl. UK) at UKIEPC 2019.

Came 2nd in Ireland at UKIEPC (2018, 17) as part of secondary school team.

Won 1st place at IrICPC 2018 again as part of a secondary school team, came 2nd in 2017

Google CodeJam top 500 (t-shirt winner) 2017

Highest rated user in Ireland on Codeforces (handle: KieranHorgan)

Web Development

Won multiple awards at Eircom Junior Spiders 2016: Best Individual Project, Best Web Design, Creative Web Coding and the Overall Giga Grand Prix.

Robotics

Was Head programmer for our school robotics team 2 consecutive years,
Represented Ireland at the 2015 Vex Robotics World Championships in Louisville, Kentucky.
Won the Excellence Award at the national VEX Robotics tournament 2015.
Won the Design award and Tournament first place at national VEC tournament 2014.

EDUCATION

University College Cork 2019-Present

- Studying for a BSc in Computer Science.
- Member of ACM Student Chapter, Networking and Gaming, Science, Archery and Flag Football societies.

Davis College, Mallow, Cork 2013-2019

- Leaving Cert results: Points: 555
- President's Award for Leaving Cert result
- Science award
- Student of the year x2