

# RALF DULI

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## EDUCATION

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### Integrated Computer Science

Trinity College Dublin

Enrolled: 2021 — Expected: 2025

Overall Average: First-class honours in both years of study.

### Innovation and Entrepreneurship (UG. Cert.)

Trinity College Dublin

Enrolled: 2023 — Expected: 2024

## ACTIVITIES

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### Dublin University Computer Science Society

*Gaming Officer*

May 2022 - May 2023

- Organized a variety of gaming-oriented events in social settings.
- Led a subcommittee comprised of "Junior Gaming Officers", who assisted with the running of these events.
- Assisted other committee members in the day-to-day running of the society.
- Gained valuable knowledge in leadership, organization and teamwork.

*Competitions Officer*

May 2023 - Present

- Organized events relating to coding competitions, usually of an online nature.
- Responsible with the distribution of prizes to the winners of our events.
- Organised a game-development workshop centered around the Unity game engine.
- Is part of the "ENTS Subcommittee", helping the society with the running of social events.
- Worked closely with the Gaming Officer and used my past experience to assist in the running of gaming events.
- Assisted other committee members in the day-to-day running of the society.

### Debating

2016 - 2019

- Communicated ideas to various audiences over the course of 3 years.
- Strengthened communication, interpersonal and presentation skills.
- Participated in competitions between various schools.

## PROJECTS

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### Chess Computer January 2023 - April 2023

- Part of a college module involving the creation of a large project.
- Assisted with the implementation of the backend, creating the chess pieces and assisting with other elements, including the frontend and deep learning portions.
- Wrote data from chess games to a MySQL database.
- Was in charge of promoting the project on LinkedIn and Instagram.
- The project got shortlisted for the SwEng Industry Awards 2023, and received a top 3 placing.

### Network Routing System November 2023

- An implementation of a flow-forwarding mechanism in Python. The system contains a set of endpoints and routers, with information being sent from one endpoint to another using a series of "hops" between routers.
- Utilised the following technologies: Python, Docker
- Utilised the following libraries: Socket, Struct, Sys.

### Ulam Spiral Vizualisation September 2023

- A visualization of the Ulam Spiral, a way of representing prime numbers.
- Utilised the following libraries: Numpy, Tkinter.

### Irish House Price Data Analysis *Project Link:* September 2023

- Became interested in data analysis at the end of the summer, got started on a data analysis project.
- Utilised the following libraries: Pandas.

## SKILLS

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- **Relevant Coursework:** Algorithms and Data Structures, C/Linux Programming, Computer Networks, Concurrent Systems, Statistical Analysis, Probability, Computer Architecture, Digital Logic, Microprocessor Systems, Numerical Methods.
- **Programming:** Python, Java, Matlab, TypeScript, C, ARM Assembly, Haskell, Dart, Prolog.
- **Frameworks:** Angular, Flutter, Spring Boot.
- **Python Libraries:** Numpy, Pandas, Socket, Tkinter, Matplotlib, OpenCV, Pillow.