

Colm Murphy

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Education

BSc Computer Science, *University College Cork*

September 2021 –
May 2025

- **Year 3: First-Class Honors:** Software Engineering, Network Communications, Ethical Hacking and Web Security, C Programming for Microcontrollers, Advanced Java Programming, Theory of Computation
- **Year 2: First-Class Honors:** Intermediate Programming, Algorithms & Data Structures, Computer Architecture, Operating Systems, Information Storage & Management
- **Year 1: First-Class Honors** - Including **91%** in Introduction to Python Programming, **90%** in Foundations of Computer Science 1/2, and **95%** in Introduction to Calculus

Languages: Python, Java, Kotlin, Javascript, Typescript, GDScript

Applications: VSCode, IntelliJ Idea, MySQL, Git/GitHub, Godot, Android Studio, Wireshark

Projects

Game Development, *Godot, GDScript*

- Designed and developed a top-down Real-Time Strategy game in a team of 4 developers.
- Implemented real-time P2P multiplayer functionality
- Incorporated various strategies to test the project's usability and functionality

Software Development - ELO rating system, *Kotlin*

- Designed and implemented a software to rank a group of chess players using the ELO rating system
- Incorporated MongoDB to keep a record of games played, allowing for ELO changes to be reverted if necessary

Embedded Development, *C*

- Developed a bicycle speedometer using a Raspberry Pi Pico microcontroller and RP2040 microprocessor

Web Development, *React, TypeScript, Docker* 📄

- Built a responsive personal portfolio website using ReactJS
- Containerised the webserver using Docker and Deployed the container to a DigitalOcean instance

Professional Experience

Software Development Engineering Intern, *Pilz*

March 2024 –
September 2024
Cork

- Worked in an Agile team to develop an iOS application using Bluetooth Low Energy and Ultra-WideBand technology
- Implemented a common CI Pipeline template for several Spring Boot applications, reducing per-project CI code by up to 90%

Server/Bartender, Isaacs Restaurant

May 2022 – present
MacCurtain Street, Cork

- Worked as a server in a busy fine dining restaurant in the city centre
- Served high quality food and wine to up to 150 guests in a 4 hour period
- Greeted guests, took food & drink orders
- Listened to guests and provided food & drink recommendations to accommodate personal preferences and dietary restrictions
- Resolved conflicts and handled guest complaints in a professional manner
- Took bookings, deposits and answered guest queries over the phone
- Closed up the restaurant at the end of the night, including doing till readings and locating the source of any shortages

References

Available on request