

# Mahmoud Yousif

Aspiring Software Engineer

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3rd Year B.Sc. Computer Science Undergraduate at DCU | 1st grade honours student | Software Development | App Development | Game Development | Machine learning | Front-End/Back-End | Full Stack Development.

## SKILLS

Bootstrap (Framework), C (Programming Language), Django, Docker, GdScript, Gitlab, Godot, Java, Linux, MySQL, Node.js, Problem Solving, Prolog, Pygame, Pytest, Python (Programming Language), React.js, Shell-scripting, Tailwind, UML

**Relevant Coursework:** Algorithm Analysis, Database Management, Data Structures, DevOps, Fullstack Development, Object Oriented Programming, Operating Systems, Software Testing, Systems Programming

## EDUCATION

### Bachelor of Science - BS(Honours) in Computer Science

Dublin City University • GPA: 1st Honours 09/2022 - 05/2026

## WORK EXPERIENCE

### Ayrfield Pharmacy Granges Rd, Ayrfield, Kilkenny • 03/2019 - 06/2019

Pharmacy Assistant Part-time

- Managed and assembled the pharmacy counter and related areas in a clean and tidy manor.
- Monitored incoming deliveries once a week and sorted and arranged items and products in respective shelves.
- Attained customer service skills, organizational skills and improved on communication expertise by interacting with staff and daily customers.

### Amazon Gen AI Hackathon 2024 Burlington Rd, Dublin 4

Student

- Interacted with more experienced developers and listened to many experiences and achievements.
- Learned about how Amazon utilizes generative AI and foundation models.
- Competed in a friendly group competition implementing generative Ai applications such as bedrock and partyrock. Finished in 10th place out of 50 beating 90% of the teams.

## CERTIFICATIONS

**Juicing in Godot (Certificate of Completion)** 07/2024 - 09/2024 Udemy

**MLSA Certificate** 08/2024 - 09/2024 Microsoft Learn Student Ambassador

## PROJECTS

### Custom Shell Using C

Designed and built a shell from scratch using C programming. Constructed documentation and implemented a detailed manual for the shell. Features include I/O input and output redirection, foreground and background execution, batch mode for processing inputs through files, and forking/executing programs.

### SQL Database & Business ER Diagram

Operated in a team to develop and implement a SQL database and ER Diagram framework for a mock business. Detailed the many roles of database users using the three-level architecture model, such as creating entities and relationships in a business. Converted informal problem descriptions into a well-formed ER schema and translated it to an appropriate relational structure. Finally, MySQL was utilised to create this database.

### React University Administration System

Developed an administration system for a college/University that gathers and maintains data about certain aspects, such as degrees, cohorts, and students and more. Combined native React for the front-end aspects and Django for the back-end processes. Used Tailwind as a framework to design and create the front-end. Implemented a react routing system and data authentication applicable to users.

### Pizza delivery app implemented with Django

Implemented Django to construct a pizza application that allows users to register and log in to view orders. Users may place pizza orders and review previous orders after logging in, exactly like a delivery app. Assessed how to utilize Django, data, implement authentication, and backend applications.

### Tumble Roll(Godot Gam Jam)

Competed against other individuals to design and build a game in Godot wild Jam 72. Although this was not completed by the submission date, it is still a work in progress with potential. The theme for this jam was light and dark, and the goal was to make a game that combines a pleasant setting with entertaining and engaging gameplay as the darkness approaches. The most significant problem I encountered was time management. Due to tight schedules, the game could not be completed in time for submission. Skills such as OOP, planning, artwork and User Interface design were developed from this experience.