

# Eoghan Clancy

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## EDUCATION

### National University of Ireland Maynooth (NUIM)

Bsc Computer Science and Statistics Double Major

Nightingale Award recipient 2023

### Leaving Certificate

Achieved 544 points with H1s in Biology and Technology

**Graduating Summer 2024**

Current/Expected Result: 1.1

Highest 3rd year/Higher Diploma Statistics Grades

Completed 2020

## SKILLS/PROFICIENCIES

**Proficient Languages:** Java, C#, Javascript(React & Node), Python (Udemy), HTML, CSS, R, SQL

**General Skills:** Object oriented/Dynamic programming | Full Stack Development | Frontend | Backend | Data structures and algorithms | UML | HTTP | Software testing | Regression/Modeling | Data analysis/ visualization | Forecasting | Probability | Matrix Algebra | Agile | Pair programming

## PROJECTS

### BlackJack Genie - React JS

- Created a React.JS app with an intuitive user interface that recommends optimal choices and counts cards to maximize probability of a player's BlackJack success based on user feedback
- A novice player can easily leverage this app's power to match the skill of a seasoned player

### Wordle Solving Tool - Java/Java Swing

- Developed a Java-based application that provides intelligent word guesses for solving Wordle puzzles (in an average of 3 guesses) by considering probability and user input
- Additionally, created a standalone interactive Wordle clone with a GUI to complement the solving tool

### University Tutorial Management System - HTML,CSS, JQuery, Node JS, MongoDB

- Developed an interactive tutorial management system, which employs HTML, CSS, and JQuery for the dynamic frontend, and implements a robust Node.JS(Express) backend integrated with a MongoDB database

### Household Lighting Control System (Software Engineering Group Project) - StarUML

- Led a team of 3 which focused on the planning, designing, and testing aspects of the software development life cycle to develop a software system for energy-efficient lighting control in households, which implemented the Observer design pattern, and an intuitive, customizable user interface. Project received an A

## EXPERIENCE

### Ernst & Young (EY)

Technology Consultant Intern (Financial Services)

**Dublin**

June 2023 - August 2023

- Produced comprehensive high level documentation for software systems and data pipelines by reviewing and comprehending detailed technical materials, then condensing said information to instruct clients/users
- Collaborated within a multifaceted team, successfully implementing an Agile workflow
- Completed EY exclusive Machine Learning and Artificial Intelligence learning programs

### Maynooth University STEM Department

Computer Science Demonstrator/Maths & Stats Tutor

January 2023 - current

- Conducted labs for multiple computer science modules, including 'Data structures and Algorithms', overseeing students, and actively aiding them in problem-solving and code debugging to facilitate learning
- Responsible for leading interactive sessions with groups of 10-20 students, focusing on problem-solving in Probability and Matrix/Linear Algebra, enhancing my math/statistics fundamentals and presentation skills

### Self-thought Website development

Summer 2021

- Designed and developed a responsive and user-friendly [website](#) for family business which is optimized for both desktop and mobile platforms with hundreds of monthly viewers
- Dedicated one month to acquiring basic proficiency in HTML, CSS, and JavaScript through online resources and beginner projects, followed by the subsequent months focusing on website design and development.