


SEÁN MOONEY

CONTACT

 Maynooth, Kildare W23H6C2

 0830447247

 seanmooney1218@gmail.com

SKILLS

- Problem Solving
- Ability to Work Under Pressure
- Ability to Work in a Team
- Ability to Learn Quickly
- Computer Skills

PERSONAL INFORMATION

Driving Licence: Full and clean

HOBBIES AND INTERESTS

- Playing guitar
- Brazilian Jiu-Jitsu
- Running

EXPERIENCE

September 2024 - Current

PhD researcher *Trinity College Dublin*

- Researching density functional theory under Prof. David O'Regan in the Quantum Theory of Materials research group.
- Research interests include DFT+U functionals and evaluating methods for computing corrective parameters.
- Experience in simulation software such as Quantum Espresso and ONETEP.

January 2021 - September 2023

Store Assistant *Scoopies, Maynooth, Ireland*

- Worked in a very popular ice cream kiosk in Manor Mills shopping centre Maynooth for over two years
- The kiosk was typically staffed by one or two workers, all responsibilities including opening, closing, bookkeeping and more, were all managed by staff on duty

June 2023 - August 2023

Developer *Microdoc*

- Engaged in part time software development work for the Trinity based start up Microdoc
- Developing on both the front-end using the Svelte framework and back-end using the Django framework
- Worked in a production setting with a small but dynamic team of developers
- Handled the implementation of features and bug fixes

EDUCATION

06/2020

Leaving certificate

Maynooth Post Primary

05/2024

Theoretical Physics Honours Bachelor's Degree

Trinity College Dublin, Dublin, Ireland

- Achieved a first class honours final degree grade.
- Developed strong mathematical ability in many areas such as real and complex analysis, numerical analysis, calculus, etc.
- Specifically chose all computational modules available. Experience in physical and numerical simulations, primarily in Python, C++ and Matlab.
- Researched excitonic physics in disordered two-dimensional lattices under Prof. Stefano Sanvito and achieved a first class honours in the written dissertation.