

JAMES BROWN

Undergraduate Physicist

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🐙 github.com/James-Brown12



EXPERIENCE

Summer Fellowship Tyndall National Institute

📅 Jun. 2023 - Aug. 2024 📍 Cork, Ireland

- Conducted research on the development of interatomic potentials for Aluminum Nitride (AlN) and Scandium Aluminum Nitride (ScAlN) using machine learning techniques.
- Utilised DeepMD-kit to train a deep potential model on data obtained from ab initio molecular dynamics simulations performed using Density Functional Theory
- Gained experience in Python programming, Linux systems, high-performance computing cluster use, and the Atomic Simulation Environment (ASE)
- Built skills in teamwork, working to deadlines, and developing research skills..
- Participated in training courses including bystander intervention, public engagement, embedded systems, and presentation skills.
- Presented my results in a research poster in Tyndall.

Bartender Old Oak

📅 Apr. 2022 - Sept. 2022 📍 Cork, Ireland.

- Greeted guests and mixed cocktails.
- Assessed guest behaviour and reported intoxicated behaviour to the manager.
- Participated in pub incentives to promote the venue.

Assistant Gardener

📅 Apr. 2021 - Sept. 2021 📍 Newcastle, Co. Tipperary, Ireland.

- Eliminated infestations with herbicides, pesticides, and fungicides.
- Improved appearance of lawns with expert mowing and edging.
- Elevated landscaping for customers with regular application of mulch and other special materials.

Hardware Store Assistant

McCarra's Hardware

📅 Jun. 2020 - Dec. 2021 📍 Newcastle, Co. Tipperary, Ireland.

- Captured consistent customer sales with friendly, knowledgeable support.
- Maintained customer satisfaction by resolving issues and helped.
- Kept store presentable with frequent resets.

EDUCATION

B.Sc in Physics University College Cork

📅 2020 -2024 📍 Cork, Co.Cork.

- Gained proficiency in languages such as C, C++, Python and LabVIEW.
- Practical experience through hands-on work with lasers, radioactive materials, and complex circuits.
- Developed a strong understanding of the theoretical side of physics.

Secondary School

Colaiste Dun Iascaigh

📅 2014 -2020 📍 Cahir, Co.Tipperary.

HOBBIES

📖 **Reading**
Enthusiastic reader with a passion for science fiction.

🍷 **Socialising**
A people person who thrives on meaningful connections. Active member of UCC Physics Society.

🎮 **Video Games**
A dedicated gamer with a love for interactive storytelling, strategy, and competitive play.

TECHNICAL STRENGTH

C++
Python
HTML/CSS/Javascript
Mathematics
Physics



STRENGTHS

- Hard-working
- Critical Thinking
- Dedicated
- Troubleshooting Skills
- Strong Verbal and Written Communicator
- Strength in Customer Service

REFEREES

Acedemic:
Dr. Mohammad Noor Alam
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Dr. Frank Peters
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Non-Acedemic:
Tony Cronin
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