

January 20, 2025

Recruitment  
Reperio Human Capital

Dear Sir/Madame,

My name is David Lawton, I am a 3rd year undergraduate pursuing a BA in Theoretical Physics at Trinity College Dublin. I am writing to you today to express my interest in the posted position as a Junior or mid-level C++ software engineer. I am doing so as the opportunity to work in such an innovative role, with room to learn alongside use of high performance tech simply cannot be passed up.

Through my individual and academic studies, I have gained the problem solving, programming, and analytical skills I believe are required for this position. I also possess the communication and leadership skills required for any team-oriented position, through my extracurricular activities, and experience in the hospitality industry. Specifically, my experience in the use of Python and C++ to solve problems in physics might bring a fresh perspective to any challenges which may be faced.

In summary, I am compelled to express my interest in this role as a junior or mid-level C++ software engineer due to my ability and enjoyment in programming, and the opportunities which the position provides. I would be thrilled to be invited for a personal interview. Thank you for your considerations,

Yours sincerely,

David Lawton.

# Curriculum Vitae

David Lawton

20th Jan. 2024

## Personal Details:

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Address: 39 Landscape Park, Churchtown, Dublin 14. D14 A304.

Contact Number: +353 83 834 4417

Contact Email: davidj.lawton@gmail.com or lawtond@tcd.ie

## Education:

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Trinity College Dublin, BA Theoretical Physics. Summer 2023 Grade - 1, 70%. Summer 2024 Grade - Pass at Reassessments, 67% (Introduction to Group Theory failed on first attempt, 90% on reassessment.)

-Relevant Modules:

Computer Simulation I, Physics for Theoretical Physics.

All other modules can be found at <https://www.maths.tcd.ie/undergraduate/modules/>

## Work Experience:

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While I have worked previously in the hospitality industry, and I believe it has given me the ability to function as part of a team, I do not deem it relevant enough to warrant inclusion.

## Awards/Acknowledgements:

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Achieved Bronze Gaisce Award in 2020. Earned maximum points in LC 2022, including H1's in Maths, Physics, Applied Maths. Received Entrance Exhibition Scholarship from TCD. One of eight students in the course being put forward to go to PLANCKS 2025 UK & Ireland Preliminaries in Swansea, by the TPSA. Participated in TPSA Hackathon (Data Analysis, Python) and coding workshops (QisKit, MCMC methods) in 2024. Volunteer experience fundraising at the Hope Foundation (2019/20).

## Skills

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Software/Tools: Experience in use of Github, as well as proficiency in Latex, Jupyter, and Microsoft Office tools.

Programming: Experience in Python and C++, including OOP and parallel programming, as well as computing in a Linux environment. I am also learning Rust currently.

## References:

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Dr. Chaolun Wu, Teaching Fellow, School of Maths, Trinity College Dublin. [wuch@tcd.ie](mailto:wuch@tcd.ie)

## Miscellaneous

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[Trinity College Dublin] Theoretical Physics Student Association; *Member* (2022-2025)