

# ADDISON OKELL

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## SUMMARY

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Third year Mathematical Physics student from the University of Waterloo, with three terms of term distinction and one term of deans, honour roll. Excellent analytical skills and experience using Python, Maple, R and LaTeX. Experience researching in an academic environment and a member of the Rocketry club. An interest in Theoretical Physics and Mathematics.

## EDUCATION

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### University of Waterloo

09 2019 – 04 2024

*Bachelor of Science, Mathematical Physics - Major Average - 83.0%*

*Waterloo, Ontario*

## RELEVANT COURSEWORK

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|------------------------------------|--------------------------------|-------------------|-------------------------|
| • Quantum Mechanics I              | • Computational Physics I & II | • Thermodynamics  | • Linear Algebra I & II |
| • Electricity and Magnetism I & II | • Classical Mechanics I & II   | • Calculus I-III  | • ODE I & II            |
|                                    |                                | • Vector Calculus | • Statistics I & II     |

## RELEVANT EXPERIENCE

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### University of Waterloo - Faculty of Engineering

01 2022 – 04 2022

*Research Assistant*

*Waterloo, Ontario*

- Researching besetting incidents of ships
- Running ice simulations
- Reading remote sensing and satellite data
- Creating plots of the data using Python

### Evolution Mining

05 2022 – 08 2022

*Student Lab Technician*

*Red Lake, Ontario*

- Create a tool in Excel to report accuracy of result
- Write a report on the created tool
- Run assays to find metal content of samples using atomic absorption spectroscopy

## TECHNICAL SKILLS

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**Languages:** Python, R, LaTeX, Maple

**Python Libraries:** Matplotlib, Numpy, Pandas, netCDF4

**Developer Tools:** Anaconda, Jupiter Notebook, Spyder, R Studio, Overleaf, TeXStudio, Maple

**Technologies/Frameworks:** Linux, Windows, MacOS

## AWARDS

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|----------------------------|--|
| • Term Distinction - 84.6% | • Term Deans Honors List - 82.5%           |
| • Term Distinction - 86.0% | • University of Waterloo Merit Scholarship |
| • Term Distinction - 90.5% |  |

## EXTRACURRICULAR

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### UW Rocketry Club

09 2022 – Present

- Analysis for handles for kismet injector valve
- Machining brace for actuation mechanism
- Repairing leaks in valves
- Sourcing parts