

# ALIM DHUKA

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## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, SQL, R, Racket, Assembly  
**Web Technologies:** HTML, CSS, JavaScript, Node.js, React.js, JQuery  
**Developer Tools:** MySQL, BlueJ, PyCharm, Visual Studio Code, MS Office (Excel, Word, PowerPoint), GitHub, Power Apps, Power Automate, PowerShell, X11/XQuartz  
**Database Management:** SQL Server, MySQL  
**API Integration:** REST APIs  
**Operating Systems:** Windows, Linux, MacOS, iOS, Android

## EDUCATION

<b>University Of Waterloo</b>	Waterloo, ON
<i>Bachelor of Mathematics in Computer Science</i>	<i>August 2023 – Present</i>

## EXPERIENCE

<b>Research Assistant Intern</b>	Dec 2022 - Jan 2023
<i>HSM</i>	<i>Mumbai, IN</i>
<ul style="list-style-type: none"><li>Achieved a top 200 ranking in a 15-day STEM internship in India.</li><li>Conducted research and authored an essay on scientific contributions to COVID-19. Analyzed three discoveries in physics and chemistry for their impact on COVID-19 management and future pandemic preparedness.</li><li>Attended Trinity College Dublin lectures on advanced physics and chemistry topics, including X-rays, Synchrotron radiation, and fascinating chemistry.</li></ul>	
<b>Student Research Intern</b>	Nov 2023 - Dec 2023
<i>MINDLER</i>	<i>Mumbai, IN</i>
<ul style="list-style-type: none"><li>Engaged in in-depth research on current affairs and attended self-development master classes for a holistic understanding. Completed an internship to enhance soft skills.</li></ul>	

## PROJECTS

**Interactive Personal Portfolio** | *HTML, CSS, JavaScript*

- Developed an impressive personal portfolio website, showcasing academic projects and skills through a responsive and interactive design.

**Real-Time Chat Application** | *JavaScript, React.js, Node.js, Express.js, and Socket.io*

- Developed a real-time chat application that allows users to communicate instantaneously. This project demonstrates proficiency in building full-stack applications with a focus on real-time communication protocols.

**Chess Game Implementation** | *C++, X11, XQuartz*

- Developed a chess game with text-based and graphical interfaces. Implemented AI opponents with varying difficulty levels, featuring sophisticated move generation algorithms. Ensured robust error handling and exception safety.

**Alarm Clock Application** | *Python with tkinter*

- Built a user-friendly alarm clock application, featuring multiple alarms, customizable tones, and robust error handling.

**Mall Application** | *Java with BlueJ*

- Engineered a shopping application, facilitating product selection and total expense calculation with a user-friendly interface.

## EXTRACURRICULAR

**Volunteering:** Participated in Design for Change program on climate and environment. Volunteered with Bharat Scouts and Guides, supporting senior citizens and crowd management during festivals. Organized sports and educational events for all ages as an Aga Khan Youth Board member.

**App Building:** Engaged in inter-school app building contests. Demonstrated game development expertise in the Google Scratch Contest.

**Certifications:** Earned IBM Digital Badges in Emerging Tech, Cybersecurity Fundamentals, AI Foundations, Hybrid Cloud, AI Ethics, and Open-Source Technologies.