

# Dundee Zhang

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## SKILLS & INTERESTS

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**Languages:** JavaScript, TypeScript, C, C++, Java, Python, HTML, CSS

**Tools and Frameworks:** Git, Unix, Node.js, Next.js, React, MongoDB, TailwindCSS, Flask, SQLAlchemy

## EDUCATION

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### University of Waterloo

Waterloo, ON

*Bachelor's of Computer Science – GPA: 3.9/4.0*

*Expected Graduation: Apr 2028*

- **Societies:** The Mathematics Society - **First Year Representative** and **Councilor Director**
- **Clubs:** Computer Science Club - **External Affairs Executive**
- **Design Teams:** Electrium Mobility - **Web Developer** - Wrote scripts to allow renting vehicles on the store.

## EXPERIENCE

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### Ignition Hacks

Aug 2024

*Mentor*

*Remote*

- Mentored over **400** university and high school students in **JavaScript**, **TypeScript** and **Python**.
- Helped students integrate **OpenAI** and **WolframAlpha** APIs in their projects for **AI** and **Computer Vision**.

### NRGHacks

Aug 2023 – Jun 2024

*Co-Founder and Judge*

*Aurora, ON*

- Co-founded and ran a school-board certified hackathon for highschool students within York Region.
- Raised over **\$1000** for multiple high school computer science clubs totaling over **200 hackers** overall.

### Newmarket High School Computer Science Club

Sep 2023 – Jun 2024

*President*

*Newmarket, ON*

- Ran **hackathons and club fairs** to introduce **over 200 students** to computer science within the town.
- Organized weekly club meetings to **teach university-level** computer science concepts to junior students.

### Town of Newmarket

Sep 2022 – Jun 2023

*Lifeguard, Swim and Lifesaving Instructor*

*Newmarket, ON*

- Trained students in lifesaving through the Bronze Medallion Course with over **70%** pass rate.
- Taught and planned swimming and lifesaving lessons for **persons with disabilities**.

## PROJECTS

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### Portfolio Website and Blog

Aug 2024 – Current

*TypeScript, Node, React, CSS, HTML, Markdown*

*github/dundeezhangv4*

- Built fully-featured portfolio and blog with **user commenting**, **contact form**, and **markdown interpreter**.
- **Reactive** and playful **animated** elements throughout the webpages.

### AI-Enhanced To Do List

Jan 2025

*Python, Flask, SQLAlchemy, GPT-4o, HTML, CSS*

*github/todo*

- Created an **AI powered** To-Do list that **automatically generates** subtasks for the users tasks.
- Incorporated **SQLAlchemy** database to store the task list to ensure usefulness.

### Algorithms and Data Structures: Contest Solutions

Sep 2022 – Feb 2024

*C++, C, Java, Python*

*github/contests*

- Solved complex math problems using **graph theory** and **abstract data structure** concepts.
- Achieved **Honor Roll (top 3%)** in the **Canadian Computing Competition**.

## AWARDS

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### Rich Media - Aivars Petersons Memorial Award

Jun 2023

*University of Waterloo*

- **One award**, given annually to an **outstanding** undergraduate student entering Year One of any program in the David R. Cheriton School of Computer Science.