

Dundee Zhang

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SKILLS & INTERESTS

Languages: C, C++, Go, HTML/CSS, Java, JavaScript, Python, Racket, Scheme, TypeScript

Frameworks: Bootstrap, Flask, Java Swing, MongoDB, Next.js, React, SQLAlchemy, TailwindCSS

Tools: Bash/Linux Shell, Cloudflare, Docker, Figma, Firebase, Git, GitHub, MongoDB, Node.js, Vercel, Vim, Vite, VS Code

EDUCATION

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** and **Office Manager**
- **Design Teams:** Electrium Mobility - **Web Developer** - Wrote scripts to allow renting vehicles on the store.

EXPERIENCE

Ignition Hacks

Aug 2024

Mentor

Remote

- Mentored over **500** students in **JavaScript**, **TypeScript** and **Python** with **React** and **Flask**.
- Assisted to integrate **Language Models** and **Computer Vision** into projects with **REST** and **POST** APIs.

NRGHacks

Aug 2023 – Jun 2024

Co-Founder and Judge

Aurora, ON

- Established a **school-board certified** and recognized hackathon for students within the 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 well-constructed swimming and lifesaving lessons for **persons with disabilities**.

PROJECTS

Aura(nate) | Python, JavaScript, Flask, Firebase, HTML, CSS, GPT-4o, Dall-E 3

Feb 2025

- Achieved over **20** unique user **sign-ups** within the first **24 hours** of product launch.
- Integrated **AI** into a professional career development toolkit using **Flask** and **JavaScript** in **backend**.
- Leveraged **Firebase** to ensure the **security** of the platform whilst **streamlining** user sign-up experience by **400%**.

Portfolio and Blog | TypeScript, Node, React, CSS, HTML, Markdown

Aug 2024 – Jan 2025

- Constructed portfolio and blog with **user commenting**, **contact form**, and **markdown interpreter**.
- Crafted **reactive** and playful **animated** elements throughout the webpages with **mobile compatibility**.

AI-Enhanced To Do List | Python, Flask, SQLAlchemy, GPT-4o, HTML, CSS

Jan 2025

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

Algorithms and Data Structures: Contest Solutions | C++, C, Java, Python

Sep 2022 – Feb 2024

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

AWARDS

Rich Media - Aivars Petersons Memorial Award

Jun 2024

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.