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Edward Zhang

2A Honours Mathematics

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SUMMARY OF QUALIFICATIONS

Languages/Tools	4 years of programming experience developing software in C, C++, Javascript, Python, HTML, CSS, React, Git, Github, \LaTeX , R, Excel, Racket, Bash, Windows, Linux.
Programming Abilities	Fluent in web development, software design, and programming using Github and Visual Studio Code.
Communication	Terrific interpersonal communication, cooperative skills, and excellent capacity to independently function as part of a team through self-motivation, developed through collaborative projects with version control systems.

KEY PROJECTS

Personal Portfolio Website

Mar 2022 — Present

Link: edward-zha.github.io/website/

- Personal portfolio website showcasing myself, my expertise, and my projects to document my coding journey.
- Creatively designed, built, and refined a successful personal portfolio website by applying JavaScript, HTML, and CSS in the Visual Studio Code environment.
- Professionally navigated Github and the Git workflow through working within a remote repository and terminal commands (clone, push, pull, fork, hosting), which led to great project/code organization, readability, and success.

Wordle Clone

Mar 2022 — Present

- Exceptional critical thinking and problem solving talent from recreating the famous web-based word game "Wordle", using HTML, CSS, Javascript, and React in Visual Studio Code, hosted on GitHub Pages.
- Seamlessly applied past coding and debugging knowledge from previous projects through online research, resulting in a smooth programming process and minimal errors.
- Word selection list obtained through WordsAPI, a dictionary API.

PAST EXPERIENCE

Math Tutor — A.N. Myer Secondary School

2020 — 2021

- Professionally communicated and taught school peers through after-hour tutorial sessions approximately 4 hours per week, through extensive contributions to solidify mathematical understanding.
- Demonstrated exceptional planning and organizational ability by preparing tutorial/homework content before sessions and by providing constructive criticism when needed, leading to a drastic improvement in the students' mathematical ability.

Kitchen Staff — Far East Restaurant, Niagara Falls Ontario

2018 — 2019

- Demonstrated exceptional ability to work in a fast-paced, high-stakes team environment as part of the kitchen staff in a Chinese restaurant. Duties included cooking, frying, packaging, and cleaning.

EDUCATION

Candidate for Bachelor of Honours Mathematics — University of Waterloo

Sep 2021 — Est. Dec. 2025

- Cumulative GPA: 86.00
- Term Distinction (1A term)
- President's Scholarship of Distinction Recipient: entrance admission average of 97%

Relevant Courses

Computer Science

- Applied coding principles including designing, tracing, testing, and documenting functional and imperative programming languages for modularized programs.
- Implemented and analyzed data structures (arrays, stacks, queues, linked lists, trees, graphs, hash tables, dictionaries) for code systems within Racket, C, Bash, and C++, which led to great sophistication when approaching complicated coding challenges.
- Designed and refined algorithms required for the work environment: generative/structural recursion, iterative/recursive sorting algorithms, the "Clique Problem", "Dijkstra's Algorithm."

Linear Algebra/Calculus

- Enhanced ability to analyze and complete complex data and optimization problems in 3 dimensions through mapping and the application of derivatives.
- Exceptional problem solving and independent learning skills from completing numerous complex assignment challenges throughout the advanced mathematical education, leading to great resiliency and efficiency.