

Victor Gao

Software developer looking for internship opportunities. Always ready to learn.

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Portfolio

Maze Simulator | [Website](#), [Code](#)

A web application for visualizing searching algorithms on mazes

- Simulates various searching algorithms including A*, Dijkstra, and SPFA
- Allows users to generate randomized mazes and modify them

Technologies Used: React

Speedforces | [Website](#), [Code](#)

A typing game

- Counts the number of characters typed in a period of time to test typing speed
- Allows users to choose to type random words, text selections, and code snippets
- Uses a modified longest common substring algorithm to adjust for typos and mistakes

Technologies Used: React

Adelaide | [Website](#), [Github](#)

A Discord bot for competitive programming

- Obtains problem and contest information from codeforces.com and dmoj.ca through RESTful API
- Allows users to store and vote on problems, download submissions, see contest standings, and many other features

Technologies Used: Java, Maven

Widgets | [Website](#), [Github](#)

- Various tools including string manipulation and a prime factorizer using Pollard's rho algorithm

Technologies Used: Javascript, HTML, CSS

Experience

Victoria Park Computing Club / President

- Implemented and explained difficult algorithmic contest problems and concepts including Dynamic Programming and Graph Theory.
- Organized and set problems for the [VPEx programming contest](#), with 267 competitors across the world
- Fostered student interest in computer science, grew club to 80 in-person and 600+ online members

Competitions

USA Computing Olympiad, Platinum Division

16th of 413 | 2021

Canadian Computing Olympiad

Silver medal | 2020

Google Kick Start Round B

347th of 10300 | 2020

Skills

Languages

C++, C, Java, Python, Javascript, HTML, CSS

Technologies

ReactJS, Git, REST API

Education

Victoria Park CI / High School

IB Program Class of 2021

- Top 6 Average: 95.3%
- High Level Computer Science: 98%
- High Level Mathematics: 99%