# FREEMAN CHENG

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## EDUCATION

**University of Toronto - St. George Campus** — Toronto, Canada
BS Computer Science *GPA: 4.0* — Sep 2020 - Present

## WORK EXPERIENCE

**BIMstudio Inc** — Toronto, Canada
*Software Engineer (Part-Time)* — October 2020 - Present

- Build an Autodesk Forge application using React (Router, Virtualized), Express, Node.js, and Forge APIs.
- Optimize Revit file retrieval times by constructing a simple data pipeline with Microsoft SharePoint.
- Hold weekly meetings with client to evaluate the product. Tailor application workflow to best suit on-site construction workers through feedback.

**Triway Education** — Mississauga, Canada
*Math Contest Instructor (Part-Time)* — Jul 2019 - Oct 2019

- Delivered weekly, two-hour lessons to prepare student for the Euclid Math Contest.
- Planned comprehensive lesson notes and homework problems tailored to skill level of student.

## SKILLS

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|---|---|
| Programming Languages: | TypeScript/JavaScript, Python, C++ |
| Web: | React, Express, Node.js, Flask, Nginx |
| Databases: | PostgreSQL, MongoDB |
| Tools: | Git, Webpack |

## PROJECTS

**Personal Website** *Express, Node.js, Webpack, Nginx, DigitalOcean*          https://freemancheng.com/
Responsive website with an option to toggle light/dark themes by using cookies to store state.
Parallax.js is used for a background which reacts to mouse movement.

**BlockOJ** *Pug, Express, Node.js, C, PostgreSQL, AWS EC2*
Winner of Hack the 6ix 2020. Online judge built around Google's Blockly API. Encourages children to solve programming puzzles with a drag-and-drop code editor.

**Comb** *React, Express, Node.js, MongoDB*
A packet sniffer that can stream sniffing data to a central dashboard, making it easier to manage multiple systems.

**Score 10006** *Express, Node.js, MongoDB*
Mathematical reverse engineering game where the player aims to get the score of 10006.

## AWARDS

**René Descartes National Scholarship (Declined)** — University of Waterloo
Scholarship valued $18000 (CAD) given to 15 incoming students. — Apr 2020

**Canadian Math Olympiad** — Canadian Mathematical Society
Qualified for the 2020 Canadian Math Olympiad. — Feb 2020

**Canadian Senior Math Contest Top 0.3%** — University of Waterloo
Placed 52nd of 18502 students on the 2019 CSMC. — Nov 2019