

FREEMAN CHENG

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EDUCATION

University of Toronto - St. George Campus
BS Computer Science *GPA: 3.93*

Toronto, Canada
Sep 2020 - Present

EXPERIENCE

BIMstudio Inc
Software Engineer

Toronto, Canada
October 2020 - Present

- Build an Autodesk Forge application using React (Router, Virtualized), Express, Node.js, and Forge APIs aimed to aid on-site construction workers.
- Optimize Revit file retrieval times by constructing a simple data pipeline with Microsoft SharePoint.
- Synced with client weekly to evaluate product and plan for the next development cycle.

University of Toronto Consulting Association
Associate Consultant

Toronto, Canada
October 2020 - Present

- Perform pro bono consulting for Arts Etobicoke, a not-for-profit organization, with a team of 6 students.
- Conduct competitor, customer, and product analyses. Develop online art class product with intention to enter the senior homes market.

Triway Education
Math Contest Instructor

Mississauga, Canada
Jul 2019 - Oct 2019

- Delivered weekly, two-hour lessons to prepare student for the Euclid Math Contest.

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. Allows children to solve programming puzzles with a drag-and-drop code editor.

Comb *React, Express, Node.js, MongoDB*
Packet sniffer which streams data to a central dashboard, making managing multiple systems easier.

Score 10006 *Express, Node.js, MongoDB*
Number theory reverse engineering game.

SKILLS

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

AWARDS

René Descartes National Scholarship (Declined)
Scholarship valued \$18000 (CAD) given to 15 incoming students.

University of Waterloo
Apr 2020

Canadian Math Olympiad
Qualified for the 2020 Canadian Math Olympiad.

Canadian Mathematical Society
Feb 2020

Canadian Senior Math Contest Top 0.3%
Placed 52nd of 18502 students on the 2019 CSMC.

University of Waterloo
Nov 2019