Freeman Cheng

Toronto, Canada · freeman.cheng@mail.utoronto.ca · https://freemancheng.com/

EDUCATION

University of Toronto - St. George Campus　　　　　　　　　　Toronto, Canada
BS Computer Science *GPA: 3.93*　　　　　　　　　　　　　　　Sep 2020 - Present

EXPERIENCE

BIMstudio Inc　　　　　　　　　　　　　　　　　　　　　　Toronto, Canada
Software Engineer　　　　　　　　　　　　　　　　　　　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　　　　　　　　　Toronto, Canada
Associate Consultant　　　　　　　　　　　　　　　　　　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　　　　　　　　　　　　　　　　　　Mississauga, Canada
Math Contest Instructor　　　　　　　　　　　　　　　　　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.

Ranked RPS *Express, Node.js, PostgreSQL, GCP Compute Engine, GCP SQL*
Application to facilitate ranked matches of rock, paper, scissors. Implements fast matchmaking, elo system, and leaderboards.

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)　　　　　　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