

Timothy Ngai

Software Engineer

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Software Engineering Experience

Voice to Speech Translator • [Deployed Site](#) • [Github](#)

Feb 2022

Tech Stack: ReactJS, MongoDB, ExpressJS, NodeJS

- Developed and designed a SPA(Single Page Application) for translation between common languages
- Incorporated voice recognition, Google text translation API, as well as speech function
- Utilized MongoDB to read and record user's favorite phrases

Flight Tracking Map • [Deployed Site](#) • [Github](#)

Jan 2022

Tech Stack: Python, Django, PostgreSQL

- Designed a SPA map for real-time tracking of commercial flights worldwide with flight specific data
- Synthesized coordinates fetched from flight API with mapping API for best visual experiences
- Leveraged PostgreSQL for the recording and tracking of any flight of interest

Stock Market Trading Simulation • [Deployed Site](#) • [Github](#)

Jan 2022

Tech Stack: MongoDB, ExpressJS, NodeJS

- Created a user-friendly application to access real-time stock market data from Yahoo Finance
- Combined stock API with charting API to seamlessly display stock chart with auto-refresh functionality
- Applied CRUD(Create, Read, Update & Delete) transactions with real-time calculation of profit & loss in simulation

Professional Experience

Co-founder & Operator

Sept 2014 - Mar 2021

Daily Press Juicery

Co-founder and operator of Daily Press Juicery - A cold-pressed juice company specializing in health orientated beverages with storefronts located in downtown Toronto. Created extension branches of the business including wholesale, white-labeling, E-commerce, as well as partner stores with multiple locations.

- Designing automation orientated and cost efficient production methods
- Created a network of programs for team to remotely contribute inventory and sales data
- Built and coded online web store for e-commerce sales channel
- Reduced labor costs and human errors with extensive use of computer technology
- Effective use of computing to manage flow of products with sensitive shelf lives

Cost Engineering/Preliminary Development

Jun 2012 - Aug 2013

Spin Master Ltd.

Joined the engineering team of Spin Master Ltd. as a cost engineering intern.

- Evaluated and determined possible product cost reducing methods like simplifying number of component
- Developed concepts into feasible and profitable products
- Designed and modeled product replacement parts to save on production costs
- Leveraged skills in SolidWorks for modeling and prototyping of products for R&D

Education

Full Stack Web Development & Software Engineering - General Assembly

Nov 2021 - Feb 2022

- 450+ hour program. Training of proficiency in Javascript, Python programming languages
- Skilled in creating mobile friendly applications in ReactJS, NodeJS & Django frameworks
- Experienced in e-commerce design and deployment. MVC frameworks, data modeling and team collaborations

Bachelor of Applied Science Mechanical Engineering - University of Toronto

Sept 2008 - Apr 2014

- BASc major in Mechatronics and Energy Systems
- Thesis in polymer-fiberglass manufacturing methods and production research

Skills & Tools

Languages: Javascript, Python, HTML, CSS

Libraries & Frameworks: ReactJS, NodeJS, Django

Database: PostgreSQL, MongoDB, Mongoose

Web Development: MERN Stack