

Nathan Cai

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Toronto, ON

EDUCATION

Queen's University

Bachelor of Computing, Computing and Mathematics Specialization

Kingston, ON

Expected May 2025

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Python, Java, C++

Frameworks/Libraries: React, NextJS, Express, jQuery, Jest

Technologies: Git, Linux, NodeJS, REST API, MySQL, MongoDB, SCSS, TypeScript

EXPERIENCE

Software Developer

May 2023 - Present

Meadow Acres

Toronto, ON

- Contributed to the development of an internal web and mobile application using **VueJS, Ionic, and Firebase** which **reduces administrative paperwork by 60%**
- Spearheaded the development of an admin panel using **Firebase and NuxtJS** to manage transactions; create suppliers, customers, and products; and bill customers, transactions value **totalling \$50k monthly**
- Rectified coding errors impacting over 50 transactions, thereby improving data accuracy and performing additional bug fixes

Core Open Source Contributor

May 2023 - Present

MillionJS

Toronto, ON

- Member of the core team of MillionJS, a library made to improve performance of React apps, and has over **3k weekly downloads and 9k Github Stars**
- Created Pull Requests that added stronger type safety for internal and external use
- Delivered MillionJS tech support and solutions to over 10 users via GitHub and Discord

Back End Developer

Aug 2022 - Apr 2023

Queen's Computing Students Association (COMPSA)

Kingston, ON

- Contributed to the development of an event management platform's backend used by **1000+** students in the School of Computing
- Implemented and tested **over 10 endpoints that accounts up to 20%** of API requests using **Flask and Python**
- Engineered the production monitoring and logging of backend using Python's logging library to streamline production error handling

PROJECTS

FoodFlation | *HTML, SCSS, NextJS, NodeJS, Puppeteer, MySQL*

Apr 2022 – Present

- Developed a website that allows users to view the price of grocery store items and to find the cheapest items across Canada and the US with NodeJS and NextJS
- Updated and migrated tech stack from **NextJS 12 and Express** to **NextJS 13 and Apollo GraphQL** to **reduce cold starts from 6-12 seconds to below 1 second**
- Developed a web scraping bot in Puppeteer to scrape the prices of over 15k grocery store items across 70 stores in Canada and the US
- Deployed a NodeJS backend to AWS Lambda and a NextJS frontend to Vercel, serving an application used by **200+ users**

Email Cleaner | *TypeScript, NPM, GitHub Actions*

Feb 2020

- Created an NPM package to standardize email inputs by removing variations, preventing duplicate account creation with **with over 1k downloads**
- Implemented CI/CD workflows with GitHub Actions to automate and **reduce deployment times by 50%**
- Wrote over 700 lines of unit tests using the Jest testing library with **over 80% test coverage**