

Grant Chen

✉ g236chen@uwaterloo.ca | 🏠 grantchen.site | 🌐 [ChenGrant](https://ChenGrant.com)

Skills

Languages: JavaScript, Python, SQL, C#, C++, Java, C, HTML, CSS, Apache Velocity

Frameworks/Libraries: React.js, Node.js, Express.js, Django, Redux, Bootstrap, jQuery, Material UI, Sass, Formik

Technologies: Firebase, MongoDB, MySQL, SQLite, AWS, dotCMS

Developer Tools: Git, GitHub, GitLab, Bitbucket, Bash, Jira, Asana, Heroku, Netlify, Render, Figma, VS Code

Experience

Web Developer | University Health Network February 2023 - April 2023

Bootstrap, jQuery, dotCMS, Apache Velocity, GitLab, Asana Toronto, Canada

- Optimized server request for **1500+ thumbnails** via dotCMS image API filters and cache, reducing render times by **64%**.
- Leveraged Web Speech API to develop a customizable speech synthesis for news articles, used by **10,000+ employees**.
- Spearheaded database scalability redesign by implementing decorator design pattern and one-to-many relationships.
- Increased feedback-form responses by **48%** by modernizing UI designs while incorporating form validation and caching.

Full Stack Web Developer | Spotwork May 2022 - August 2022

React.js, Node.js, Firebase, Redux, Material UI, Formik, Figma, Bitbucket, Jira Toronto, Canada

- Engineered an internal API with localized, min-wage data to facilitate US-market expansion, serving **150,000+ users**.
- Developed a smart autofill system, streamlining the hiring process for **1000+ daily job postings** with this migration.
- Reduced initial client render time by **71%** by lazy-loading database requests and restructuring client-side architecture.
- Enabled uploading of **950+ GB** of extra media files through client-side file compression and optimizing server storage.

Full Stack Engineer | 1915 Lan Zhou Ramen June 2021 - August 2021

Django, SQL, jQuery, Sass, Python, JavaScript, HTML, CSS, Heroku Toronto, Canada

- Independently engineered a restaurant website to showcase menu items and place user-authenticated reservations.
- **Increased the number of customers by 9%** via SEO optimizations and by deploying with a custom SSL-certified domain.
- Developed an email system using Django's mail library to send emails about reservation confirmation and cancellation.
- Architected and built a scalable SQL database that stored **1100+ reservations** and **600+ authenticated customers**.

Lead Coding Instructor | Code Ninjas June 2020 - August 2020

Django, SQL, JavaScript, HTML, CSS, Heroku Richmond Hill, Canada

- Migrated storing of attendance from Google Sheets to SQLite by independently developing an attendance system.
- Led a team of 6 instructors in redesigning the curriculum, **improving the time efficiency of lessons by 10%**.
- Taught 80+ game-development lessons to 36 students of ages 7 - 14 through programming video games in JavaScript.

Projects

Fitcountr 🍷 🌐 February 2022 - Present

React.js, Express.js, MongoDB, Firebase, Redux, Material UI, Formik, Heroku, Render

- Engineered a calorie-tracking web app that graphically visualizes data about user-recorded foods, weights, and steps.
- Integrated load balancing to scale server endpoints to support **3000+ users** authenticated by Gmail or email/password.
- Implemented nutritional data querying for **over 3 million foods** via food name and barcode image/number scan.
- Designed a scalable document database with one-to-many and many-to-one data relationships via reverse referencing.

Education

University of Waterloo September 2021 – April 2026

Candidate for Bachelor of Computer Science, Co-op Waterloo, Canada