Grant Chen

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Skills

Languages   Python, JavaScript, Java, HTML, CSS, C, Racket
Technologies   Django, ReactJS, Firebase, jQuery, Sass, Git & Github, ChatEngine.io REST API, Heroku, Netlify

Work Experience

The Golden Taste Buffet 🔗 ⌂   *Toronto, CA*
FULL STACK DEVELOPER   *June 2021 - August 2021*

- Independently engineered and deployed a **Django** business website to generate reservations for a buffet chain.
- Devised an sqlite3 database to tabulate **200+ reservations** and client information produced by a login system.
- Issued confirmation emails via Google SMTP upon completing a reservation form designed with Sass and jQuery.
- **Increased the number of customers by 6%** by adopting a custom domain with SSL using Heroku deployment.

Code Ninjas Richmond Hill   *Richmond Hill, CA*
LEAD CODING INSTRUCTOR   *June 2020 - August 2020*

- Led programming lessons for 26 students of ages 7 - 14 through coding video games in Scratch.
- Redesigned the curriculum lessons and Scratch code, **improving the time efficiency of lessons by 10%**.
- **Supervised a team of 4 instructors-in-training** via daily Zoom meetings regarding lesson improvements.
- Presented weekly feedback to parents on their child's progress to determine skill-sets and areas of development.

Projects

Personal Website 🔗 ⌂   *August 2021 - Present*

- Developed a responsive HTML, CSS, and JavaScript website hosted by GitHub Pages to outline personal ambitions.
- Designed slideshow and fade-in animations using **Sass and jQuery** alongside gifs to showcase 8 technical projects.

Chatify 🔗 ⌂   *October 2021*

- Engineered a responsive **ReactJS** messaging website with Google Firebase's user authentication.
- Hosted chat user interface, storing of media in chat history, and friending of users via the ChatEngine.io REST API.
- Queried users by using ChatEngine.io while supporting up to **1000 monthly messages** and sharing of media files.

Sorting Algorithm Visualizer ⌂   *May 2021*

- Visualized the selection sort, insertion sort, bubble sort, and merge sort algorithms via the **Java Swing GUI library**.
- Created a drop-down menu to randomize a set of 50 objects and present each algorithm's time complexity via big O.

Math Graphing Calculator ⌂   *February 2021*

- Built a **Java** graphing calculator following OOP design principles to act as an **exemplar project for 70+ students**.
- Implemented abstract data types such as generic stacks and linked lists to calculate user-inputted math expressions.
- Integrated binary search with error handling to approximate points of intersection between any two given functions.

Education

University of Waterloo   *Waterloo, CA*
CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE   *Sept 2021 - June 2026*

- Faculty of Computing/Mathematics GPA: **4.0/4.0 (97%)** - Dean's List.
- Relevant Courses: Algorithm Design and Data Abstraction (in C), Designing Functional Programs (in Racket).
- Scholarships: President's Scholarship of Distinction ($2000), June Nicholson Francescut Scholarship ($2000).