

VANESSA CUI

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TECHNICAL SKILLS

- **Languages:** Python, Swift, C, MATLAB, JavaScript/ES6
- **Concepts:** JavaScript MVC frameworks, **Data Structures**, Algorithms, **Caching**, **Object-Oriented Design**
- **Technologies:** Git, GitHub, Command-Line, Postman, SQLAlchemy, UIKit, Core Data, APIs, CocoaPods, React, Node.js, HTML& CSS, MongoDB, **SQLite**, **PostgreSQL**, Firebase, Mongoose, Express, JSON, Bootstrap, Materialize

PROJECTS

Good Food • iOS Mobile and Web Application • [LINK](#) May 2022 - Present

- A full-stack iOS mobile application and web application using the MVC design model
 - Developed SQLite database to store recipes and food item data. Used Core Data to locally persist user's data.
 - Used Vision framework to scan receipts to expedite the process of adding food items into the app and database
- HTML5, CSS, Swift, Python, UIKit, Core Data, Vision, Flask, SQLAlchemy, PostgreSQL, RESTful API**

Snake • Website • [LINK](#) Nov. 2022 - Present

- A web browser version of a classic game called Snake deployed using GitHub Pages
 - Used localStorage in the browser for data persistence to store and display user high score data
- HTML5, CSS, JavaScript, GitHub Pages**

Budget App • Full Stack Web Application • [LINK](#) Dec. 2022 – Present

- Developed a MEN full-stack financial tracker application using a MVC design model
 - Developed a database that allows users use Google OAuth to create multiple dashboards to track their finances
- HTML5, CSS, JavaScript, Node.js, Express.js, Mongoose, MongoDB, Railway, Passport.js**

EXPERIENCE

SunnySide • Software Engineer Remote | Dec. 2022 - Present

- Collaborated in a cross-functional team of designers, developers, and managers to develop core applications

Jacobs • Intermediate Structural Engineer Toronto, ON, Canada | May 2021 - May 2022

- Honed communication skills through designing technical solutions in a cross-functional team of engineers
- Delivered new design and developed specifications based on client requirements
- Analyzed and designed structures in accordance with the Building Code and/or existing project specifications

RJC Engineers • Structural Restoration EIT Toronto, ON, Canada | Apr. 2019 - May 2021

- Assisted in managing multiple projects and clients simultaneously from conceptual design to final completion for project budgets ranging from \$50k to \$4M
- Designed and analyzed existing building components, upgrades, and additions in accordance with the Building Code
- Resolved construction issues on-site by coordinating with contractors and engineers

EDUCATION

General Assembly, Software Engineering Immersive Oct. 2022 - Present

University of Toronto, Master of Engineering, Civil Engineering Jan. 2018 – Jun. 2019

University of Waterloo, Bachelor of Applied Science, Civil Engineering Sept. 2011 – Jun. 2016

DESIGNATION

Professional Engineer, Province of Ontario, License No. 100542098 Jun. 2021 - Present