

# Johnson Zhang

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## EDUCATION

### Queen's University

*Bachelor of Computing (Honours), Specialization in Software Design*

Kingston, ON

*Sept. 2018 - Apr. 2022*

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL (MySQL, NoSQL), JavaScript, ClojureScript, HTML/CSS

**Frameworks:** Vue, Node.js, React, Flask

**Developer Tools:** Git, Docker, Firebase, VS Code, Eclipse

**Concepts:** Data Structures, Algorithms, Database Management Systems, OOP, Performance Analysis

## EXPERIENCE

### Undergraduate Teaching Assistant

Jan. 2022 – Apr. 2022

*Queen's University*

*Kingston, ON*

- Guide 30 students through new learning material and aid with understanding assignments done in PHP, MySQL, JavaScript, HTML and CSS
- Provide feedback and foster an environment of open communication and curiosity

### Software Engineer

Dec. 2021 – Jan. 2022

*Cotton Candy Inc.*

*Mississauga, ON*

- Resolved issues and refactored 100+ lines of code which resulted in a more efficient and polished system
- Tech Stack: JavaScript, Clojurescript, HTML and CSS

### Frontend Engineer

May 2021 – Aug. 2021

*Cotton Candy Inc.*

*Kingston, ON*

- Developed a customization tool that allows users to easily design and purchase products
- Collaborated in a small team in a fast-paced environment to implement core features to the website
- Participated in numerous merge requests and code reviews
- Tech Stack: Clojurescript, JavaScript, Shopify Liquid, HTML and CSS

## PROJECTS

### TA Management System | *Vue, TypeScript, MySQL, Docker*

Sept. 2021 - Apr. 2022

- Redesigned, implemented, and deployed a teaching assistant management system for the Queen's Physics Department to allow the department administrator to easily assign and manage graduate teaching assistants
- Queen's SSO implemented for secure user authorization
- Implemented a MySQL Database and over 15 REST API endpoints, secure from SQL Injections
- Performed unit testing on the various REST API endpoints
- Gathered and documented user requirements by conducting requirement elicitation techniques
- Strengthened leadership and organization skills by being the team lead

### Animal Crossing Field-Guide (QHacks) | *VueJS, Firebase, Tailwind and SaaS*

Jan. 2022

- Utilizing the public Animal Crossing API, built a full-stack web application to keep track of what animals users have caught
- Led to a better understanding on how to use Vue and Google's Firebase

### Flight Information Dashboard | *MySQL, PHP, HTML and CSS*

Apr. 2021

- Designed a relational database and web application to allow users to query, delete, add, and update flight information for airports in Canada
- Led to a better understanding of relational databases and the best practices in data management