

# MELISSAGONZALES

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## PROJECTS

### CourseCalendar

<https://github.com/spicyChick3ns/courseCalendar>, 2017

- Utilised **Slim Framework** to interface with the **MySQL** server containing the calendar database
- Stylised with **jQuery** plugins, **HTML**, and **CSS** to present the database

### TheFoodFinder

<https://github.com/melissagonzales/TheFoodFinder>, 2017

- Analysed a food review dataset (568,454 reviews) from Amazon to retrieve the most relevant products by rating, for a given keyword
- Implemented quicksort and binary search algorithms in **Java** to allow fast lookup of elements
- Utilised the **JSON.simple** library to parse the dataset into a multimap data structure

### Eczema Womps

<https://github.com/spicyChick3ns/EczemaWomps>, 2017

- Conducted observations of personal eczema trends based to find correlation between outdoor temperatures and outbreaks
- Processed and plotted results onto graphs using **Python's pandas** library

### Delightful-Dict

<https://github.com/spicyChick3ns/delightful-dict>, 2017

- Created an abstract data type that mimics a Dictionary written in **Java**
- Developed automated unit tests using **JUnit** to investigate potential failures of the abstract data type

### Riveting-Circles

<https://github.com/spicyChick3ns/riveting-circles>, 2017

- Developed test cases using **PyUnit** to verify and validate the functionality of the ADT
- Followed the module interface specification document to fulfil the requirements of the client

## EXPERIENCE

### Programming Guru

RP4K, Summer 2017

- Taught students video game programming in **Visual Basic**, **C#**, and **Java**
- Ability to concisely explain fundamental programming and math concepts to students

### Home Healthcare Sales Consultant

Medical Mart Supplies, 2015 - 2017

- Maintained thorough knowledge of products and equipment sold
- Effective communication skills through assisting clients

### Outreach Volunteer

McMaster University Computing and Software Outreach, October 2016

## SKILLS

### Languages Tools

Java	JUnit
Python	PyUnit
JavaScript	Git
HTML	Bash
CSS	
SQL	
C#	
C++	
Visual Basic	

## EDUCATION

Bachelor of Applied  
Science, Computer  
Science

McMaster University,  
2015-2019

### Relevant courses:

- Data Structures and Algorithms
- Discrete Math I & II
- Intro to Software Development
- Principles of Programming
- Databases
- Concurrent Systems