MELISSA GONZALES

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PROJECTS

CourseCalendar - 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 - 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 - 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 - 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 Instructor
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
- Effective communication skills through teaching students

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