

## **JAMES JAY FLORES**

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<https://github.com/jimflores5/>

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### **Skills**

#### **Programming Languages:**

Python

C#

#### **Operating Systems:**

Mac OS

Windows

#### **Software:**

Visual Studio

Visual Studio Code

### **Project Experience**

#### **Significant Figures Web-app (<https://github.com/jimflores5/SigFigs>)**

- In high school Chemistry, there are several basic (yet critical) skills that students must master. This project deals with the concept of significant figures.
- The "infinite practice" functionality provides immediate feedback to students and helps them master counting and performing calculations with significant figures.
- Interactive tutorials (for use in a 'flipped' classroom) are currently being added to the project.

### **Work Experience**

#### **High School Chemistry & Physics Teacher**

*Fall 1995 – Present*

- Designed and implemented engaging, laboratory-based courses benefitting advanced, regular and special needs students.
- Utilized a variety of teaching methods to increase student understanding. These included: modeling techniques, paradigm labs, demonstrations, whiteboard discussions, assessment for learning, group work, problem solving activities, and direct instruction.
- Course activities emphasized critical thinking skills, analytical and computational strategies, and the development of proper lab techniques.

### **Education**

#### **LaunchCode101, St. Louis, MO**

- 20 week program that focused on programming fundamentals, web basics and MVC concepts.
- Curriculum covered: Python, Flask, Jinja2, SQLAlchemy, MySQL, C#.
- Built multiple in class projects.

#### **University of California, Riverside**

- Teacher Education Program - June 1996
- Master of Science in Chemistry - June 1995

#### **Washington University, St. Louis, Missouri**

- Bachelor of Arts in Chemistry, with Minor in Mathematics - May 1993