

# Zachary Pelley

Undergraduate Student – Computer Science

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## Education

**University of Mass. Lowell** 2022

BS Computer Science, *Focus: Data Science*

*Relevant Classes:*

Database Design & Implementation,  
Computing Architecture, Discrete Structures,  
Advanced C++, Computing Languages Organization

## Technical Skills

### Technologies

Pandas, TensorFlow, Linux/Bash, Windows,  
Visual Studio, MySQL, Eclipse, OpenC, Unity

### Standards & Process

Agile (Scrum), SDLC, GitFlow

### Programming Languages

C++, Python, Java, HTML, SQL, PHP

## Notable Projects

### Classwork

Bookstore Database  
*Ongoing*

- Programmed using HTML, PHP, with SQL database
- Creating a bookstore website that stores user information in a database

Gene Matcher  
*Fall 2021*

- Programmed in C++ using OOP approach
- Matches two strings of genomes with the least amount of editing distance

Guitar Synth  
*Spring 2021*

- Programmed in C++
- Generates a full range of frequencies
- Places the range in a circular buffer
- Keyboard input used to access individual notes

### Personal Work

Color Detection Program  
*Summer 2021*

- Programmed using Python
- Pandas and OpenCV used to identify the RGB value at cursor location

## Work Experience

Chipotle Mexican Grill  
*Reading, MA*

Line Cook,  
*Summer 2018 - Fall 2021*

- Accustomed to an intensive work environment
- Optimizes output by clearly communicating with staff
- Maintains extensive food safety and quality regulations