

# KYLE INSAURRALDE

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**Website:** kinsaurralde.com

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## EDUCATION

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### University of California, Davis

**Expected Graduation: June 2022**

*Bachelor of Science, Computer Science*

- GPA: 3.6
- Deans' Honor List: Spring 2019
- Relevant Coursework: Discrete Mathematics for Computer Science, Programming and Problem Solving, Software Development and Object-Oriented Programming, Data Structures and algorithms, Machine Dependent Programming

### Benicia High School

**2014 - 2018**

- GPA: 4.30
- Relevant Coursework: AP Calculus, AP Computer Science, Diablo Valley College Engineering Camp

## PERSONAL PROJECTS

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### Website | kinsaurralde.com

**June 2018 - August 2019**

- Playable mini games such as Conway's Game of Life, Minesweeper, Pong, and Tetris using JavaScript
- Integral approximations, base converter, chaos game simulator and other small projects

### WS281x LEDs (neopixels) | kinsaurralde.com/pages/ws281x.html

**April 2019 - August 2019**

- Python Flask application that provides a website to control ws281x LEDs from a raspberry pi
  - Python functions create patterns with LEDs based on requests from URL route or json POST
- Can support multiple LED strips connected to different raspberry pi's
  - Uses websockets to communicate between pi's

### Titration Calculator | chemistry.kinsaurralde.com

**March 2019**

- Developed a titration calculator in c++ that calculates data for a strong acid / base titration
- Developed a website that converts user input into an api call to the calculator which runs on aws lambda and displays the returned data in a graph and a table

### Weather Data | weather.kinsaurralde.com

**October 2018**

- Developed a website that gathers weather data from an API to display weather conditions at a user's current location

## EXPERIENCE

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### Audio Visual Technician | Faith Bible Church of Vallejo

**July 2015 - Present**

- Display slides on projectors

### Food Service | Jack in the Box

**July 2018 - September 2018**

- Take orders and cook food

## AWARDS AND TEST SCORES

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- AP Computer Science Exam Score: 5 **May 2018**
- National Hispanic Recognition Award **2017 - 2018**
- AP Scholar with Distinction Award **May 2018**