

# Jason Kim Young

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## **Education**

University of California, Irvine  
Computer Science, B.S.

Expected Graduation June 2024

## **Experience**

High School Teaching Assistant 2019-2020

*Java - Teaching assistant for a high school introductory programming class*

- Tutored students through reviews and simplification of material
- Resolved programming issues by brainstorming approaches and collaborative debugging

## **Projects**

Line Approximator - Line of Best Fit Feb. 2022

*Python, Matplot, Numpy - Tool designed to provide approximations for the equation of a line of best fit given several points*

- Applied a linear regression algorithm to generate linear, quadratic, and cubic functions for any set of points
- Visualized the approximations along the provided points using Matplotlib

MSFlames - Number Component Tool Oct. 2021

*Python, SQLite - Application for an online game that breaks down a large sum of values into its components.*

- Created SQL databases by transforming and importing various CSV and HTML files
- Identified solutions across numerous possible scenarios through recursive techniques
- Improved user game performance by assessing the desirability and value of calculated components

SNIF - Desktop Screen Recorder & Editor July 2021

*Python, OpenCV, Tkinter - Application using computer vision and a GUI framework to quickly record any region of the main monitor and edit the recording frame by frame.*

- Connected imaging libraries and transformed data between modules in the form of NumPy arrays
- Designed user interfaces with OpenCV and Tkinter enabling flexibility in the processes of region selection and video editing

## **Skills**

**Languages** - Python, C++, HTML, CSS, Javascript, SQL, Java (Prior Experience)

**Libraries/Resources** - OpenCV, Excel, Tkinter, SQLite, Numpy, Matplotlib, Bootstrap