

# JACOB DAMASCO

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## EDUCATION

**University of Southern California, Los Angeles, CA**

**Expected: May 2024**

*B.S., Computer Engineering & Computer Science, Cumulative GPA: 3.3 / 4.0*

- **Relevant Courses:** Data Structures, Programming in C/C++, Discrete Methods in CS, Embedded Systems, Distributed Systems and the Internet of Things, Linear Algebra

**University of San Francisco, San Francisco, CA**

**Aug 2019 - May 2022**

*B.S., Physics, Cumulative GPA: 3.93 / 4.0*

- **Honors:** Recipient of the Dr. Raymond J Genolio Award, Dean's List (all 6 semesters)
- **Relevant Courses:** Object Oriented Programming in Java, Multivariable Calculus, Math Methods for Scientists & Engineers, Statistical Physics, Quantum Mechanics

## SKILLS

- **Languages:** Python, Java, HTML, CSS, JavaScript, LaTeX, C/C++
- **Frameworks & Tools:** Django, React, Bootstrap, Flask, Git, Visual Studio Code, IntelliJ, Eclipse, Shell

## PROJECTS

**OCR: Optical Character Recognition | [\[Github\]](#)**

**Nov 2022**

- Developed a **C++ program** that uses **polymorphism & inheritance** to identify numbers from images **without the use of machine learning libraries** while also accounting for different fonts and styles.
- Wrote a **breadth-first search algorithm** that was able to identify large pixel chunks that form a number.
- Used **mathematical techniques**, such as calculating the Euler number, symmetry, & center of mass, in order to **accurately differentiate the digits 0 to 9**.
- Applied **operator overloading** to the program in order to add or subtract classified digits read in from the images.

**Family Feud: Baby Shower Edition | [\[Github\]](#)**

**July 2022**

- Deployed a Family Feud **game in React** complete with sound effects, score updating, & strike functionality.
- Showcased the web app to **10 players & 10 extended family members**.
- Implemented **React components, props, hooks, & React Router** in order to write modular code & develop new web development skills **within 1 week**.
- Technologies used: **React.js, JavaScript, HTML, CSS, & Bootstrap**.

**Grocerup | [\[Github\]](#)**

**Winter 2021**

- Created a **Python Django web app** where users manage kitchen inventory & grocery lists with a personal login.
- Implemented Django models' **SQLite databases** in order to store kitchen inventory items & grocery list items.
- Technologies used: **Python, Django, HTML, CSS, & Bootstrap**.

**HungryMe Recipe Finder | [\[Github\]](#)**

**Summer 2020**

- Built a **Python Flask web app** utilizing the **Edamam Recipe API** to suggest recipes based on a user search.
- Handled up to **6 API calls** using the **Python requests and json libraries** to generate user-targeted recipes.
- Technologies used: **Python, Flask, HTML, & CSS**.

## WORK EXPERIENCE

**University of San Francisco, San Francisco, CA**

**Aug 2020 - May 2022**

*General Physics Tutor*

- Taught groups of **2 to 6 students** to help them with physics assignments & exam preparation.
- Reinforced students' conceptual understanding using different explanations & examples, resulting in scores **greater than the 80% class average**.
- Developed strategic solutions that led students to **reduce time spent** on homework throughout the semester.
- Coordinated tutoring times with the professor & another tutor in order to maximize student success.