

# JACOB DAMASCO

damasco@usc.edu | (408) 889-3557 | [jacobdamasco.com](http://jacobdamasco.com) | [linkedin.com/in/jrdamasco](https://linkedin.com/in/jrdamasco) | [github.com/jacobdamasco](https://github.com/jacobdamasco)

## EDUCATION

University of Southern California, Los Angeles, CA

Expected: May 2024

B.S., Computer Engineering & Computer Science, Cumulative GPA: 3.34 / 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, Statistical Physics, Quantum Mechanics

## SKILLS

- **Languages:** C/C++, Python, Java, HTML, CSS, JavaScript, Kotlin, LaTeX
- **Frameworks & Tools:** React, Django, Bootstrap, Flask, Git, Visual Studio Code, Docker, VirtualBox, Linux, 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.

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**.

## WORK EXPERIENCE

TeraThought, Los Angeles, CA

Aug 2022 - Current

Software Engineer

- Constructed 3+ widgets, such as a pop-up invite banner and a mobile navbar, using **Kotlin and Android's Jetpack Compose** to develop a prototype for TeraThought's new mobile app.
- Collaborated with **1 product manager and 4 UX designers in order** to optimize the usage of widgets in the app.
- Improved code quality by identifying and resolving **20+ bugs** and properly documenting major changes to the codebase during weekly code reviews.

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.