

# Abby Mapes

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<https://abbymapes.ucr.appspot.com>

## EDUCATION

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**Duke University** – Durham, NC | 4.0 GPA

**Expected May 2022**

B.S. in Computer Science, Information Science + Studies Certificate

Dean's List w Distinction, Fall 2018 - Present

**Relevant Coursework:** Data Structures & Algorithms, Intro to Database Systems, Intro to Mobile Programming, Computer Architecture, Intro to Data Science, Discrete Math for CS, Matrices & Vector Spaces, Calculus I & II

**Campbell Hall High School** – Studio City, CA | 4.95 GPA

**Graduated May 2018**

Cum Laude Society, Headmaster's List and Honor Roll (2014-2018), Scholar Athlete of the Year,

Captain of Varsity and Club Volleyball Teams

**ACT:** 36, **SAT:** 1540/1600 (800 Math, 740 English), **SAT Math II Subject Test:** 800

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, C, HTML, CSS, SQL, Swift, MIPS, LaTeX

**Tools:** Git, XCode, RStudio, Maven, SQL Server, Data Warehouse, WordPress

**Technologies:** GCP, Google AppEngine, OAuth2.0

## WORK EXPERIENCE

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**Google, Inc.**

**May 2020 - August 2020**

STEP Intern

Virtual Internship

- Developed a full stack web-based personal assistant application that supports common Google Assistant tasks and unique add-on features using Java, Java servlets, JavaScript, HTML, CSS, and various Google APIs
- Trained conversational AI inputs with Dialogflow and programmed backend fulfillment and frontend display to support 15 different features
- Implemented an assistant feature that creates a social book experience by liking and sharing books with friends and managing bookshelves for users using OAuth, Datastore and Google's Books and People APIs
- Executed a complete development process, including writing design docs, implementation, code reviews, testing, and launching internally

**UCLA External Affairs, Application Development**

**May 2019 - August 2019**

Junior Information Analyst

- Implemented a bulk cleanup of UCLA's database, deleting over 45 GB of storage, by designing a Python program to identify old working tables
- Assisted in migrating hard-coded IDs from stored procedures into attributes in UCLA's OLTP environment by developing a Python script to parse through and pull out appropriate IDs from SQL statements

## LEADERSHIP EXPERIENCE AND ACTIVITIES

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**Web Editor for The Standard**

**September 2018 - Present**

- Managing and running the website for Duke's online publication The Standard

**SPIRE Fellow**

**Fall 2019 - Present**

- Mentoring and contributing to Duke's STEM Pathways for Inclusion, Readiness & Excellence community

**Creative (Art | Tech) Community Member**

**January 2019 - Present**

- Exploring the intersection of art and technology with other creative and logical thinkers on campus