Abby Mapes

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https://abbymapes.uc.r.appspot.com

EDUCATION

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, iOS Mobile App Development, Web Application
   Development, Design & Analysis of Algorithms, Database Systems, Computer Architecture, Intro to Data
   Science, Discrete Math for CS, Matrices & Vector Spaces

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

TECHNICAL SKILLS

  Languages: Java, Python, JavaScript, Swift, HTML, CSS, SQL, C, MIPS, LaTex
  Tools: Git, XCode, RStudio, Maven, SQL Server, Data Warehouse, WordPress
  Technologies: GCP, Google AppEngine, OAuth2.0

WORK EXPERIENCE

Google, Inc.   **May 2020 - August 2020**
 STEP Intern   Virtual Internship

- Developed a full stack web-based personal assistant 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 to detect users' intent and any necessary parameters, and programmed appropriate backend fulfillment and frontend display to support 15 different assistant features
- Implemented an assistant feature that creates a social book experience by liking and sharing books with friends and managing users' bookshelves using OAuth 2.0. and Google's Books and People APIs
- Executed a complete development process, including writing design docs, implementation, code reviews, testing, and launching the web application 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

TutorTies iOS Developer   **September 2020 - Present**

- Managing TutorTies, a swipe-to-match iOS app that matches students with tutors at their school
- Expanded the app to support 6 more schools by restructuring the data to include a school attribute, updating the iOS and server-side code, and retrieving class information from each schools' API

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