

Abby Mapes

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EDUCATION

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| Duke University – 4.0 GPA | Expected May 2022 |
| <i>B.S. in Computer Science, Information Science + Studies Certificate</i> | Durham, NC |
| <ul style="list-style-type: none">• Honors: Phi Beta Kappa Society, Dean's List with Distinction (Fall 2018 - Present)• Relevant Coursework: Data Structures & Algorithms, iOS Mobile Application Development, Web Development, Design and Analysis of Algorithms, Database Systems, Computer Architecture, Data Science, Discrete Math for Computer Science, Matrices and Vector Spaces | |
| Campbell Hall High School – 4.95 GPA | Graduated May 2018 |
| <ul style="list-style-type: none">• Honors: Cum Laude, Headmaster's List (2014 - 2018), Scholar Athlete of the Year• ACT: 36, SAT: 1540/1600 (800 Math, 740 English), SAT Math II Subject Test: 800 | Studio City, CA |

TECHNICAL SKILLS

Languages: Java, Objective-C, Python, JavaScript, Swift, HTML, CSS, SQL, C, MIPS, LaTeX
Tools & Technologies: XCode, Git, RStudio, Maven, SQL Server, GCP, OAuth2.0, WordPress

WORK EXPERIENCE

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| Google, Inc. | May 2021 - August 2021 |
| SWE Intern, <i>iOS Google Maps Mobile</i> | Virtual Internship |
| <ul style="list-style-type: none">• Developed features to make Google Maps' photo-viewing experience more immersive and engaging in response to recent findings that mobile users are trending towards visual decision making• Implemented client-side Objective-C code to enhance Google Maps' lightbox– the full screen spotlight view that opens when viewing photos or videos in the app– to help users make decisions about a place• Executed a complete iOS feature development process, including feature design, code implementation, testing notes, QA & accessibility testing, and enabling the features for experimentation in the 5.75 branch | |
| Google, Inc. | May 2020 - August 2020 |
| STEP Intern | Virtual Internship |
| <ul style="list-style-type: none">• Developed a full stack web-based personal assistant that supports 15 common Google Assistant tasks and three unique add-on features using Java, Java servlets, JavaScript, HTML, CSS, and various Google APIs• 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 iOS feature development process, including feature design, code implementation, testing notes, QA & accessibility testing, and enabling the features for experimentation in the 5.75 branch | |
| UCLA External Affairs | May 2019 - August 2019 |
| Junior Information Analyst, <i>Application Development</i> | Los Angeles, CA |
| <ul style="list-style-type: none">• Designed a Python program to execute a bulk cleanup of UCLA's database, deleting over 45 GB of storage• 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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| TutorTies iOS Developer | September 2020 - Present |
| <ul style="list-style-type: none">• Managing TutorTies, a swipe-to-match iOS app that matches students with tutors at their school• Developed client and server-side code to allow TutorTies to expand to six additional schools | |
| Web Editor for The Standard | September 2018 - Present |
| <ul style="list-style-type: none">• Managing and running the website for Duke's online publication The Standard | |
| SPIRE Fellow | Fall 2019 - Present |
| <ul style="list-style-type: none">• Mentoring and contributing to Duke's STEM Pathways for Inclusion, Readiness & Excellence community | |