SURABHI SINGH

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EDUCATION	Carnegie Mellon UniversityPittsburgh, PABachelor of Science in Computer Science,May 2023
	Additional Major in HCI, Minor in Business
RELEVANT EXPERIENCE	 The Effects of COVID-19 on Broadband (Summer 2020 - Present) Used SQL and statistical analysis to examine changes in the number of Internet-related complaints that the Federal Communications Commission (FCC) received Used statistical analysis to compare types of content accessed on the Internet from the pre-COVID to post- COVID periods Created a comprehensive report and used Excel to display trends in graph and map format Working on publishing these findings in a reputed journal Research mentioned in the "Broadband for America Now" report by the Benton Institute for Broadband and Society (reference given for our research professor Jon Peha) Mathnasium Tutor (December 2017 - November 2018) Taught math concepts ranging from basic Algebra to Precalculus to students in grades K-12.
PROJECTS	 Plan My Day Application (Fall 2019) Python application that creates custom trip itineraries Developed the application in Python using Google Maps APIs and the Yelp API to build a custom trip itinerary Users enter travel dates, activities of interest, budget, hotel location, and desired travel radius, and the application generates a custom itinerary within the defined constraints. Users can see the itinerary in both calendar-form and in map-form. Autonomous Vehicle CUI (Fall 2020 - Present) Prototype for a Conversational User Interface in an autonomous car Used Figma to create a journey map for a customer traveling by car to identify her pain points and brainstorm possible solutions Constructed scripts in Voiceflow to simulate a user's interactions with the CUI and implemented them in the Amazon Alexa Developer Console FedEx Tracking Application (Summer 2020) Web application that displays FedEx package information (Independent Project) Created the application in Java using FedEx Web Services and Spring Boot Users enter a tracking number and receive information about their package (shipper address, destination address, etc.) Online Yoga Application (Fall 2020) Prototype for an online yoga app Conducted primary and secondary research to determine the common problems yoga students face with attending classes online Created storyboards and scenarios to simulate possible uses and features of the app Developed lo, mid, and hi-fidelity prototypes using Figma to simulate the app's interface
RELEVANT COURSES	Computer Science: Fundamentals of Programming and Computer Science, Great Theoretical Ideas in Computer Science, Interaction Design Overview, Principles of Functional Programming, Principles of Imperative Computation Math: Calculus in Three Dimensions, Introduction to Probability Theory, Mathematical Foundations for Computer Science, Matrices and Linear Transformations Business: Microeconomics
SKILLS	Advanced: Python, Java, C, Spring Boot, Excel, Figma, InVision, Adobe InDesign, Voiceflow Intermediate: SML, SQL, XML, Swift, Amazon Alexa Developer Console
ACTIVITIES & HONORS	Dean's List (Spring 2020) School of Computer Science Mentor (August 2020-Present) Women @ SCS (August 2019 - Present) Women in Politics (August 2020 - Present) Strong Women Strong Girls Advocate (August 2020 - Present)