

# KOMAL ESSARANI

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## EDUCATION

May 2022	<b>University of North Carolina at Chapel Hill</b> , M.S in Computer Science
May 2021	<b>University of North Carolina at Chapel Hill</b> , B.S in Computer Science with a minor in Statistics & Analytics

## EMPLOYMENT

June 2021-August 2021	<b>Software Engineering Intern, Oracle</b> <ul style="list-style-type: none"><li>Implemented Pact.js, a testing framework into existing microservices as well as with API requests and responses</li><li>Learned more about how microservices and APIs communicate</li><li>Enrolled in self-learning courses to explore Pact.js and used technologies such as Postman, JavaScript, Kubernetes</li></ul>
June 2020-August 2020	<b>Global Technology Summer Analyst Intern, Bank of America</b> <ul style="list-style-type: none"><li>Collaborated in a team of 12 other interns to scrape over financial documents to build an NLP language model</li><li>Implemented Python packages such as NLTK, Spacy, TensorFlow, and other NLP tools to clean and process documents into the proper format based on exploratory data analysis</li><li>Employed Agile methodologies to streamline the project process and make communication easier</li></ul>
May 2019-August 2019	<b>Software Development Intern, Fidelity Investments</b> <ul style="list-style-type: none"><li>Utilized Angular 6 to develop tools and pages on a web application in the Healthcare group, such as creating a CRUD application</li><li>Enrolled in several learning courses such as a 37-hour Angular course on Udemy, Agile training, JavaScript, and SQL on Lynda Learning in order to effectively apply it to team projects</li><li>Connected APIs and Databases to web applications using technologies such as PostgreSQL, Angular 6, DBeaver</li></ul>
August 2019-January 2020	<b>Undergraduate Learning Assistant for Foundations of Programming, UNC Chapel Hill</b> <ul style="list-style-type: none"><li>Held over 10 hours of office hours in order to assist over 400 students enrolled in COMP 401: Foundations of Programming with both conceptual help and assignment help</li><li>Assisted with Recitations each week which consists of helping around 50 students in class with any questions regarding lecture or the class overall</li></ul>

## ACTIVITIES

May 2020-Current	<b>Computer Science Department Ambassador, UNC Chapel Hill</b> <ul style="list-style-type: none"><li>Assist with duties and tasks related to events put on by the External Relations team</li><li>Serve as liaison to visiting business professionals and companies</li><li>Represent the Department of Computer Science during corporate and prospective student event</li></ul>
August 2018-December 2021	<b>CS+SG (Computer Science + Social Good), UNC Chapel Hill</b> <ul style="list-style-type: none"><li>Develop applications, based on need, for non-profit organizations using technologies such as React</li></ul>
January 2019-January 2020	<b>Girls Who Code, Activity Committee, UNC Chapel Hill</b> <ul style="list-style-type: none"><li>Develop effective lecture slides so that girls at an early age are exposed to computer science and enjoy learning concepts</li></ul>

## PROJECTS

<b>Git Terminal System</b>	<ul style="list-style-type: none"><li>Recreated aspects of the git terminal system using Clojure</li><li>Implemented commands like init, commit, switch, write-tree</li><li>Gained a deep understanding of the git tree structure and how the system works behind each command</li></ul>
<b>AudioTyping</b>	<ul style="list-style-type: none"><li>Utilized React to develop a web application that teaches visually impaired children how to type on a standard keyboard</li><li>Relies on audio to develop muscle memory and associate certain sounds with certain keys on the keyboard</li></ul>
<b>Car Marketplace App</b>	<ul style="list-style-type: none"><li>Utilized Java and Android Studio to develop an application for android phones that is similar to CarMax in that users can filter through cars and choose their favorite one</li><li>Focuses on User Experience and making categories that users would like to filter cars by, such as Brand, Color, or price</li></ul>

## SKILLS

**LANGUAGES:** Sindhi, Hindi, Urdu, English, French

**TECHNICAL:** Java, HTML, CSS, JavaScript, Git, C, React.JS, Angular, MIPS, Typescript, Clojure, Python