

KOMAL ESSARANI

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EDUCATION

May 2022 **University of North Carolina at Chapel Hill**, M.S in Computer Science
· Rewriting the Code Fellow: *June 2019-Current*
· Anita Borg Grace Hopper Conference Scholar: *June 2020-Current*

May 2021 **University of North Carolina at Chapel Hill**, B.S in Computer Science

EMPLOYMENT

June 2020-August 2020 **Global Technology Summer Analyst Intern, Bank of America**
· Collaborated in a team of 12 other interns to scrape over financial documents to build an NLP language model
· 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
· Employed Agile methodologies to streamline the project process and make communication easier

May 2019-August 2019 **Software Development Intern, Fidelity Investments**
· Utilized Angular 6 to develop tools and pages on a web application in the Healthcare group, such as creating a CRUD application
· 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
· Connected APIs and Databases to web applications using technologies such as PostgreSQL, Angular 6, DBeaver

May 2019-Current **Residential Computing Consultant, UNC Chapel Hill**
· Provide Technical Support to students living on campus while also developing monthly reports with updates

August 2019-January 2020 **Undergraduate Learning Assistant for Foundations of Programming, UNC Chapel Hill**
· 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
· Assisted with Recitations each week which consists of helping around 50 students in class with any questions regarding lecture or the class overall

ACTIVITIES

May 2020-Current **Computer Science Department Ambassador, UNC Chapel Hill**
· Assist with duties and tasks related to events put on by the External Relations team
· Serve as liaison to visiting business professionals and companies
· Represent the Department of Computer Science during corporate and prospective student event

August 2018-Current **CS+SG (Computer Science + Social Good), UNC Chapel Hill**
· Develop applications, based on need, for non-profit organizations using technologies such as React
· Past projects have included developing applications for clients like Orange County Rape Crisis Center and PhD students

January 2019-January 2020 **Girls Who Code, Activity Committee, UNC Chapel Hill**
· Develop effective lecture slides so that girls at an early age are exposed to computer science and enjoy learning concepts

PROJECTS

Git Terminal System · Recreated aspects of the git terminal system using *Clojure*
· Implemented commands like init, commit, switch, write-tree
· Gained a deep understanding of the git tree structure and how the system works behind each command

AudioTyping · Utilized *React* to develop a web application that teaches visually impaired children how to type on a standard keyboard
· Relies on audio to develop muscle memory and associate certain sounds with certain keys on the keyboard

Car Marketplace App · 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
· Focuses on User Experience and making categories that users would like to filter cars by, such as Brand, Color, or price

SKILLS

LANGAUGES: Sindhi, Hindi, Urdu, English, French

TECHNICAL: Java, HTML, CSS, JavaScript, Git, C, ReactJS, Angular, MIPS, Typescript, Clojure, Python