

KOMAL ESSARANI

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EDUCATION

- May 2021 **University of North Carolina at Chapel Hill**, B.S in Computer Science
- Rewriting the Code Fellow: *June 2019-Current*
 - Anita Borg Grace Hopper Conference Scholar: *June 2020-Current*

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 and regulatory documents to build an NLP language model (corpus)
 - 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 in order 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, DBBeaver
- 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 middle school girls are exposed to computer science at an early age and have fun learning the concepts as well

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, React.JS, Angular, MIPS, Typescript, Clojure, Python