

# KOMAL ESSARANI

[www.linkedin.com/in/komalessarani](https://www.linkedin.com/in/komalessarani) | (704) 579-4895 | [komalessarani.com](mailto:komalessarani@gmail.com) | [komalessarani@gmail.com](mailto:komalessarani@gmail.com) | <https://github.com/komalessarani>

## EDUCATION

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

## EMPLOYMENT

- September 2022-Current **Software Engineer, Oracle**
- June 2021-August 2021 **Software Engineering Intern, Oracle**
- Implemented Pact.js, a testing framework into existing microservices as well as with API requests and responses
  - Learned more about how microservices and APIs communicate
  - Enrolled in self-learning courses to explore Pact.js and used technologies such as Postman, JavaScript, Kubernetes
- 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
- August 2019-January 2020 **Undergraduate Learning Assistant for Foundations of Programming, UNC Chapel Hill**
- Held over 10 hours of office hours 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-May 2022 **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-December 2021 **CS+SG (Computer Science + Social Good), UNC Chapel Hill**
- Develop applications, based on need, for non-profit organizations using technologies such as React
- January 2019-January 2020 **Girls Who Code, UNC Chapel Hill**

## PROJECTS

- Git Terminal System**
- Recreated aspects of the git terminal system using Clojure by implementing 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

## SKILLS

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

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