Tejas Sameera

32 Dickinson Rd, Kendall Park, NJ 08824

ts880@scarletmail.rutgers.edu | (732)-397-5818 | https://github.com/Tejass9922 | tejass9922.github.io/Portfolio-Website/#/

Education

Rutgers University - New Brunswick — GPA : 3.71 / 4.00

B.S in Computer Science (In progress) — Graduation Date: May 2022

Relevant Coursework

Data Structures, Discrete Structures, Systems Programming, Computer Architecture, Linear Algebra, Multivariable Calculus (High School)

Experience

New Jersey Courts — **Ewing, NJ**

Software Engineer Intern — **August 2020 - Present**

- Assisted in the venture of prototyping legal language models through the use of Natural Language Processing to enhance the Information Court System's presence in specific fields of Artificial Intelligence.
- Utilized and fine-tuned Google's BERT language model by creating a legal corpus to achieve abstractive and extractive text summarization to ultimately obtain the most accurate text prediction summaries for legal uses.
- Implemented a multi-lingual text translator into the core code of the Judiciary-Information-Assistant (JIA) chatbot with IBM's Language Translation API.
- Participated in development, testing, and documentation of online case management systems, mobile data systems, PEGA, web-based services using Java, .NET, JavaScript, HTML, IBM Websphere, and C++

Code Ninjas — **Piscataway, NJ**

Coding Instructor — **March 2020 - Present**

- Designed a data scraper that implemented a Zoom API that gathered information regarding student integration within course material into multiple datasets to enhance student progress during the online learning period.
- Lead efforts in organizing an effective and thought provoking new method of gauging student understanding of core programming concepts through the use of skill based and interactive examination tools.
- Implemented a framework as the Lead Python instructor to help engage students in a more efficient manner during the times of online sessions during the COVID-19 pandemic.

ApSync Inc. — **Monmouth Jct, NJ**

AP Computer Science Tutor — **May 2017 - 2018**

- Spearheaded and founded the committee for undertaking committed high school students who struggled during the Advanced Placement level course: AP Computer Science A.

Projects

Version Control System (GIT recreation) (C)

- Designed and executed a multithreaded application implementing a server - client relation to recreate the functionality of GIT. Program is designed to avoid common problems of version control such as deadlocking and race conditions. Some functional capabilities include: commit, push, pull, rollback, and version history information for any number of projects.

Little Search Engine (Java)

- The objective of this search engine is to gather and index keywords that appear in a set of plain text documents and search keywords against the index and return a list of matching documents in which these keywords occur. This simple version of the project could be used as a framework to to more complicated tasks.

Circuit Simulator (C)

- A circuit simulator that takes in multiple input files with circuit description directives and utilizes bit logic as building blocks to perform the intended operations and output the end circuit truth table that contains all possible outputs for all the possible combinations of input variables. Written in C utilizing a unique implementation of a HashMap with an array element inside a Struct to dynamically allocate and deallocate memory.

Skills

Languages:	Java, Python, C, C++, JavaScript, HTML/CSS
Technologies:	React.js, GIT/GitHub, Linux/Unix
Frameworks/Packages:	Swing, Flask

Leadership / Extracurricular

Delta Sigma Iota (Delta Chapter) - National Multicultural Service Fraternity

Scholarship Chair, Recruitment Chair, Fundraising Chair, Executive Board

- Organized various recruitment events, which ranged from informational sessions to community service events, for over 35 students of various ethnicities, ages, and educational backgrounds
- Implemented innovative academic outlines for chapter study hours that increased overall chapter GPA by 0.4 in the first two semesters it was instituted