

RAISA GHOSH

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EDUCATION

Bachelor of Computer Science and Engineering, JIS College of Engineering
Current CGPA : 9.65/10.0 [top of class]

2020 - 2024

EXPERIENCE

Algorithm Design and Development Intern (Python, Parallel Processing, OOP)
Praxis Business School

July 2022 - Sept 2022
Bengaluru, India

- Conducted thorough research and analysis to understand the requirements and objectives of the project.
- Developed a comprehensive roadmap for the development of an algorithm designed to identify and select popular dishes, extract relevant information from the internet about these dishes, and utilize the Parts of Speech (POS) tagging algorithm to identify the corresponding ingredients.
- Designed and implemented a sophisticated algorithm, delivering the solution 30 days ahead of schedule.
- Proposed and presented a highly efficient parallel processing model to the team, subsequently gaining approval for its implementation. Implementing the parallel processing model reduced the total execution time by an impressive 400
- Documented the algorithm development process, including methodologies, data sources, and techniques utilized, ensuring clarity and reproducibility.

PROJECTS

Project Dictionary (MongoDB, Express, React, Node, Material UI)

[LIVE](#) ; [GITHUB](#)

- A platform for students to upload their projects with a title, brief description, and an image. Update and Like features are also available. Used MongoDB Atlas for the database.
- Set up the backend by defining the different routing paths and the respective controllers.
- Set up the front end using React. 3 components were used: The Form component, the Posts component, and the individual Post component used in the Posts component. Used Material UI with JSX for styling the components.
- Set up the API for getPosts, createPost, updatePost, deletePost, and likePost (basic CRUD Operations).

Automatic Recipe Finder (Python, Web Scraping)

[GITHUB](#)

- Calling the program with an Excel file as input will automatically create text files containing the first 10 links for the web pages that have the recipes of the items in the Excel file.
- Since web scraping links, implemented the functionality to hold and wait after extracting a certain number of links to avoid an error.

Personal To-do List (HTML, Javascript, React)

[LIVE](#) ; [GITHUB](#)

- A personal to-do list that has 3 views: All, Completed, Uncompleted. Used React localStorage as database.
- Used 3 components: Form(to add to-dos and filter out todos based on their completion status), Todos(to list out all todos), Todo(a component used in the Todos component to view/update each todo)

Analysing Student Results (Python)

[DEMO](#) ; [GITHUB](#)

- A package made for my college's exam cell. It contained different programs that read files and performed some operations according to the user's choice, like ranking students according to their grades, making report cards, etc.
- Divided the different functionalities into different programs for better readability, reproducibility, and modifications in the future.

SKILLS

JAVA, Data Structures, Algorithms, OOP, OS, DBMS, Computer Networks, SQL Designing using Canva, Web Development

ACHIEVEMENTS

- Top of Class/Valedictorian in High School 2020 - Julien Day School
- Smart India Hackathon(Team Lead) 2022 Finalist

[PRESENTATION](#) ; [PRODUCT DETAILS](#)