

Debak Bhattacharjee

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TECHNICAL SKILLS

Languages: Python, Java, SQL (MySQL, MongoDB), JavaScript, HTML/CSS

Frameworks: React, Node.js

Developer Tools: Git, VS Code, Visual Studio, PyCharm, Eclipse

Libraries: pandas, NumPy, Matplotlib

PROJECTS

Priority Based Virtual Machine Migration | *Cloud Computing, Cloud Analyst* Dec 2023 – May 2024

- **Developed a priority-based dynamic load balancing algorithm** using Cloud Analyst to optimize job allocation across multiple cloud data centers, ensuring prompt processing of high-priority tasks.
- **Achieved higher performance** to test algorithm such as Round Robin and Dynamic VM migration by **30 percent and 22 percent**.
- **Conference paper has been accepted by IEEE**
- [Github Link](#)

Tomato, A Takeout/Reservation App | *MongoDB, Expressjs, Reactjs, Nodejs* May 2023 – August 2023

- Developed an user friendly app where users can order home delivered takeout or book a reservation for eating in restaurant.
- Implemented features for **browsing menus, selecting items, and placing orders for home delivery**.
- **Integrated calendar and time-slot** selection for user convenience
- Ensured a **responsive and mobile-friendly design** for optimal user experience across devices.
- Designed and developed **RESTful APIs** to handle user requests, orders, and reservations.
- Used Node.js for server-side scripting and handling asynchronous operations.
- [Github Link](#)

A Github-like App | *MongoDB, Expressjs, Reactjs, Nodejs, TailwindCSS* May 2023 – August 2023

- Developed a GitHub-like application using the MERN stack, integrating features for user authentication, fetching GitHub user profiles and repositories, and client-side repository filtering.
- Implemented **GitHub OAuth** authentication using **Passport.js** for secure user login and authorization.
- Enabled users to filter repositories based on specific criteria (e.g., language, stars) directly on the client side for better user experience.
- Designed a **responsive interface using TailwindCSS** to ensure the application is mobile-friendly and accessible across devices.
- Ensured real-time updates and synchronization of data fetched from the GitHub API.
- [Github Link](#)

EDUCATION

Netaji Subhash Engineering College

Bachelors in Information Technology.....8.53

New Garia, West Bengal

Nov. 2020 – May 2024

Bholananda National Vidyalaya

AISSCE Class 12 CBSE.....94

Barrackpore, West Bengal

May. 2019 – April 2020

Bholananda National Vidyalaya

AISSC Class 10 CBSE.....89

Barrackpore, West Bengal

Mar. 2017 – April 2018