MRINAL BHOUMICK

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Education

Techno India University   **2020 − 2024**
Bachelor of Technology in Computer Science and Business Systems   *Kolkata, West Bengal*
CGPA: 8.61

- **Technical Courses:** Discrete Mathematics, Statistical Modeling, Computational Statistics, Data Structures, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Object Oriented Programming, Machine Learning, Artificial Intelligence, Computer Networks, Information Security, Web Application

K.E.CARMEL School   **2019 − 2020**
Higher Secondary (Council for Indian School Certificate Examinations)   *Kolkata, West Bengal*
Percentage: 87

- **Course Work:** Physics, Chemistry, Mathematics, Computer Science

Experience

Company Name : Oasis Infobyte   **May 2023 - Jul 2023**
Web Development Intern   *Remote*

- Managed a team of 4 people.Allotted individual tasks and responsibilities.Conducted daily meetings to ensure proper workflow and communication.
- Worked on the back-end and database of the project. Created REST APIs and Database Schemas in mongoDB.

Company Name : Workmates Core2Cloud Pvt Ltd   **Dec 2023 - Present**
Associate DevOps Engineer   *Kolkata*

- Set up and configure cloud services and resources (e.g., virtual machines, storage, databases).
- Work on automating deployment processes to ensure efficient and consistent deployment of applications.
- Implement monitoring solutions to track the performance and health of cloud resources.
- Use version control systems to manage and track changes in infrastructure code using Terraform and Cloudformation.
- Designed and implemented a scable event-driven application by integrating Kafka Streams for real time data processing and Zookeeper to manage Kafka Cluster cordination.
- Designed a Real-Time Chat Application using WebSocket and Socket.io for seamless, bidirectional communication. Configured API Gateway and AWS Lambda for efficient message handling and serverless architecture. Utilized DynamoDB to store user IDs, message data, and object IDs, with Amazon S3 managing object storage for a scalable and cost-effective solution *Link*

Projects

Movix | *Link*   **Nov 2022 - Dec 2022**
Description: A MOVIE RECOMMENDATION SYSTEM that recommends movies using the K-Nearest Neighbours algorithm(KNN).

- Technology Stack : Python , HTML5 , CSS 3 , SCSS , React JS , Vite JS , Mongo DB
- Options to select movie (Movie/Content based recommendation)
- Options to select multiple genres (Genre Based Recommendation)

WebMediaSaver | **June 2022 - July 2022**

- Technology Stack : Python , BeautifulSoup Lib , requests , os , time , HTML/CSS
- Efficient Media Extraction: WebMediaSaver focuses on efficiently extracting media content, including images and videos, from web pages.
- User Interaction: The project provides a seamless user interaction by prompting users to input the URL of the web page they wish to extract media from.
- Media Download: WebMediaSaver distinguishes between image and video links within the HTML content of the page and downloads these media files to the user's local machine.
- Organized Output: WebMediaSaver creates a dedicated directory where all downloaded media files are stored and saved.

Technologies / Skills

Languages: C++, Python, Java, HTML, CSS, JavaScript
Developer Tools: VS Code, AWS, Pycharm , Replit , Amplify Studio
Frameworks/Libraries: AWS Lambda, API Gateway, ECS, Docker, PgSQL, Nginx, CloudWatch, Kafka, SQS, EventBridge, S3, CDN, DynamoDB, Kubernetes (K8s) and Github Actions Workflows.
Version Control: Git , GitHub AWS CodeCommit , BitBucket , GitLab
Operating System : Windows , Linux
Extra Skills: Problem Solving , Microsoft Excel, Microsoft Word, Canva, Power Point, Video Editing
Soft Skills: Leadership , Teamwork , Time Management , Adaptability

Achievements / Certifications

- 200+ Problems Solved in Coding Platforms (GeeksForGeeks) *Link*
- ACM ICPC Regional Round Qualified 2023-24. AIR - 198 *Link*
- AWS Certified : Developer Associate. *Link*
- HashiCorp Certified : Terraform Associate
- Spearheaded the development and implementation of optimal solutions algorithms, resulting in a data processing efficiency. *Link*