MILAN MUKHERJEE

Software Engineer, Computer Science Postgraduate

@ milanmukherjee789@gmail.com   ☎ +353 892584774   in linkedin.com/in/milan-mukherjee789   ○ github.com/milanmukherjee789   ♦ Dublin

EDUCATION

Msc. in Computer Science-Future Networked Systems
Trinity College Dublin

📅 September 2022 – August 2023

B.Tech in Computer Science and Technology
Indian Institute of Engineering Science and Technology,Shibpur

📅 August 2014 – May 2018

EXPERIENCE

Software Engineer-2, Research & Development Department
Hyland Software Pvt. Ltd.

📅 August 2020 – August 2022   ♦ Kolkata,India

- Re-designed architecture of a video content management system that increased the application's response time significantly.
- Developed API authentication for security enhancement project
- solved API exception issue and issue in playback count of statistic monitoring service
- Mentored 5 juniors

Software Engineer-1,Research & Development Department
Hyland Software Pvt. Ltd.

📅 October 2018 – August 2020   ♦ Kolkata,India

- developed product features using AWS, ruby on rails, python and php
- Won Hyland's yearly innovation competition in 2018 and 2019.
- solved CPU memory issue and decreased memory usage by 15%
- developed auto-scrolling interactive transcript for the video player

INTERNSHIP

Redundant CDM Generation and Real Time Trajectory
Defence Research and Development Organization, India

📅 June 2017 – July 2017

- Developed a software from scratch to track flying objects and process data using Java, Network Programming, inter-server Communication to solve issues of an existing error prone system

PUBLICATIONS

Worked on following publications in spare time beside regular job.

- Roy, Souvik et al. (2022). "Can social media represent an emerging event - case study on Indian citizenship debate". In: *2022 IEEE Calcutta Conference (CALCON)*, pp. 244–248. DOI: 10.1109/CALCON56258.2022.10060662.
- Sinha, Priyadarsini et al. (Jan. 2020). "MODELING OF OPINION FORMATION UNDER INFLUENCE OF SOCIAL MEDIA FOR ANALYZING HISTORICAL EVENTS WITH BENGAL PARTITION AS CASE STUDY". in: pp. 138–141. DOI: 10.26480/etit.02.2020.138.141.

PROJECTS

Sustainable City Application
Academic Project

📅 Jan 2023 to till date

- A web application for Dublin to make the commute system more sustainable and smart.
- Designed and developed own load balancer, CDN, Autoscaling, Health Monitor Services Created CI/CD pipeline in gitlab to measure performance cases, regular job creation on latest check ins

Moment in Time Search
self Project

📅 Dec 2019 to March 2020

- Service that enables clients to search videos with the words used in it. Speech to text generation and reverse indexing of subtitles using solr
- currently integrated in company's product

Information Centric network
Academic Project

📅 Oct 2022 to Dec 2022

- A peer to peer network to pass information without the direct use of ip address
- improved scalability with pending interest table & direct access table, cache and fallback method

Game Development using AI
self Project

📅 Jan 2022 to April 2022

- Developed maze solver, Tic-Tac-Toe and connect4 game player using A*,MDP, BFS,DFS, Q-learning and mini-max algorithm

EPL Football Match Result Prediction
self Project

📅 Oct 2022 to Dec 2022

- A model developed to predict any future match result of EPL. Used Random-forest, SVC and Knn algorithm to achieve 70% accuracy

SKILLS

Cloud Architecture, AWS, Software Architecture

C++,Java, Python, Ruby, JavaScript, Rails, Springboot

HTML, CSS, React   Docker, CI/CD, Security

Kubernetes, Semaphore   System Design, SQL

POSITIONS

- General Secretary and Placement Representative of Department in IIEST
- Public Relations Head in Robotics Club of IIEST