

Soumik Bera

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EDUCATION

GARGI MEMORIAL INSTITUTE OF TECHNOLOGY

BTECH CGPA: 8.39
Aug 2018- Jun 2022 | Kolkata

LINKS

Github:// [SOUMIKBERA](#)
LinkedIn:// [soumikbera](#)
LeetCode:// [tylerdurden450](#)

SKILLS

PROGRAMMING

Languages:
JavaScript • Java • Python • TypeScript

Backend:

Node.js • NestJS • Express.js • REST APIs
• WebSockets • Microservices

Frontend:

React.js • Angular • Next.js • HTML5 •
CSS3 • Tailwind

DevOps & Tools :
AWS (EC2, S3) • Git • GitHub • CI/CD •
Docker • WebRTC

AI & LLM Integration:

LangChain, LlamaIndex, RAG pipeline,
OpenAI API

Security & Auth:

JWT • OAuth • Passport.js • RBAC

Tools & Monitoring:

Postman • Jest • Prometheus • Webpack

Databases & Storage:

MongoDB • MySQL • PostgreSQL •
Prisma ORM • Redis

COURSEWORK

Web Development
Data Science
Data structure & Algorithm
Cloud Computing
Machine Learning

ORGANIZATIONS

CORE TEAM MEMBER

Mar 2022

Montage, the drawing club member of
GMIT Kolkata. Exhibition of painting and
drawing by the community.

EXECUTIVE

sep 2018

Built automated CNC-based writing
machine using Arduino and Raspberry Pi

WORK EXPERIENCE

PERFECTICE EDUVENTURE PVT LTD | SOFTWARE DEVELOPER

January 2024 – Jan 2025 | Noida, India

- Developed and maintained scalable backend services using **Node.js**, **NestJS** & **Express.js** for SaaS-based learning platforms, with secure **REST APIs** using **JWT** and **RBAC**.
- Built a scalable **ReactJS** frontend with **Redux** for an LMS, optimizing performance and reusability for high-traffic use.
- Integrated live video and real-time data into **React** via **WebRTC** and **Socket.IO** for seamless proctoring.
- Migrated critical features from **Angular** to **React**, reducing bundle size and improving load speed by 35%.
- Integrated **Redis** caching and optimized **MongoDB/PostgreSQL** queries reducing latency by 30%..
- Deployed services using Docker on **AWS(EC2)**, and set up a **CI/CD** pipeline for automated deployments.

EXPERIENCE/ PROJECTS

DEVSPACE | DEVELOPER

August 2023 - Jan 2024 | Hyderabad | [Link](#)

- A social media Web App using **Nodejs**, **Express**, **Socket.io** & **MongoDB**, **HTML**, **CSS** & **Bootstrap**.
- Implemented server-side rendering with **EJS** and **MVC architecture**.
- Designed different collections in **databases** like **users**, **posts** & **follows** and applied complex database operations like **MongoDB lookup**, etc.
- Used **babel** & **webpack** to compile and bundle, respectively.
- Implemented Authentication like user registration & login.
- Deployed it using Heroku, a cloud platform.

CRYPTOCURRENCY TRACKER | DEVELOPER

Jan 2023 - Aug 2023

- Web App to track the live data like Price, Volume, Change etc for several Cryptocurrencies. Fetch live APIs from cryptonator using Axios
- Auto price and other data update without refreshing in every 30 seconds
- Integrated Live chat from a third party application
- Made a function to convert UNIX time to DayTime. Integrated google analytics to track the live traffic data.

MACHINE LEARNING CLASSIFICATION PROJECT | DEVELOPER

January 2021 - April 2022

- Explored and Visualized the Iris Dataset to gain insights.
- Built Logistic Regression, Decision Tree and Random Forest for classification of species.
- Used accuracy score as the evaluation metrics and found that Decision Trees and Random Forest increased the accuracy by 2%.

CERTIFICATES

Gammaprep | Coding and Development

- C++ • Java • NodeJS • ReactJS • Data Structures • DBMS • OOPS

ThinkLance Edutech | Data Science Trainee

Ethical EduFabrica Pvt. Ltd,IIT Bombay, AI with ML

Cloud Computing| PreInsta

java | PreInsta