

Tamal Das

Full Stack Software Engineer | Banking and Financial Services

MERN stack developer interested in React frontend or Node backend role

[GitHub](#) | [LinkedIn](#) | [Website](#) | [HackerRank](#)

EXPERIENCE

Tata Consultancy Services – Kolkata – Data Analyst (QA)

JUL 2020 - PRESENT (System Engineer)

- Ensured Data Quality in backend SQL database which receives data from 160 upstream systems and sends data to 20 critical downstream destinations.
- Performed Impact Analysis to quantify and segregate ETL code impact on Exposure At Default and Risk Weighted Assets
- Supervised a team of 3 associates and planned testing and processing cycles in an agile environment.
- Designed and developed a Correlation Matrix based internal analysis and reporting tool for impact segregation during Data Integration Testing reducing analysis time by 60%

Tata Consultancy Services – Kolkata – Node Backend Developer

JUL 2019 - JUN 2020 - (Assistant System Engineer)

- Diagnosed a critical bug regarding the implementation of JWT Authentication
- Redesigned the JWT based Authentication with Refresh token for better User Experience
- Integrated and maintained 5 new SQL tables along with 5 new REST API endpoints for CRUD operation
- Collaborated with the frontend team to implement a portfolio visualisation module and completed the UI module in 3 releases in an agile environment

PROJECTS

Indian Equity Market Analyser — Markowitz Model

- Generates the risk return plot as per Modern Portfolio Theory(MPT) proposed by Harry Markowitz in context of Indian Equity Market
- Designed the system to analyse last 10 years of daily data for 500(NIFTY50 , NIFTY-NEXT-50, NIFTY-SMALLCAP 250 , NIFTY-MIDCAP 150) Equity Shares and helps an investor to spot the Efficient Frontier and Capital Allocation Line which help them to construct the optimal portfolio.
- This is an actively maintained project, recalculation is done as part of weekly batch processing . The backend is deployed on Heroku .

Link - [Risk-Return Dashboard](#)

Tools Used - Python , Pandas , Scipy , SQLAlchemy, Node, Express, Heroku , Chart.js

Indian News Headline Scanner – News API(REST)

Right now I am working on a REST API service which scrapes headlines from websites of leading Indian print media houses like THE HINDU and TIMES OF INDIA using the node based scraping tool cheerio . My objective is to provide a news headline provider API to the popular frontend apps .

GitHub Repo - [News-API-Backend](#)

Tools Used - Cheerio , Express , MongoDB Atlas , Mongoose , JWT

COVID Vaccine Center Tracker – UI for API Setu

Created a simple light weight single page web app which collects data from API Setu (Government of India's Open API initiative) and helps users to find details of local vaccination camps.

Link - [VaccineInfo](#)

CONTACT DETAILS

Kolkata, West Bengal , India

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LANGUAGE

English , Hindi , Bengali

FRONTEND SKILLS

HTML5 | Chart.js | P5.js

CSS | Bootstrap | JavaScript | React |

React- Redux | Redux-Toolkit

BACKEND SKILLS

Node | Express | NPM

MySQL | Postgres | Sequelize

MongoDB | Atlas | Mongoose

JWT Auth | Web Scraping(Cheerio)

Git | GitHub | Heroku | Python

SQLAlchemy | Pandas

ANALYTICAL SKILL

Linear Regression

Logistic Regression

Correlation Analysis

Principal Component Analysis(PCA)

ACHIEVEMENT

3 Star Problem Solver in Hacker Rank

Cleared TCS Codevita-2019

Round-1

EDUCATION

Heritage Institute of

Technology – Kolkata -B.Tech

(Electrical)

2015 June – 2019 June

DGPA – 8.64

Sri Ramkrishna Sikshalaya , Howrah

WBCHSE – 12th

Mar 2013 – Mar 2015

Secured Marks 85%

Sri Ramkrishna Sikshalaya , Howrah

WBCHSE – 10th

Mar 2011 – Mar 2013

Secured Marks 90%

CERTIFICATION

Certified Software Tester ISTQB

Certified Foundation level – 2019