

# Tamal Das

## Full Stack Software Engineer | Data Analyst

Interested in Front end and Backend Development role which involves Data Analysis and Data Visualisation



### Contact Details

Email – tamaldas177@gmail.com

Cell No – (+91) -9062407115/9163143460

GitHub - <https://github.com/tdas-kolkata>

LinkedIn - <https://www.linkedin.com/in/tamaldas177>

Portfolio - <https://tamaldas177.herokuapp.com/>

## EDUCATION

### Heritage Institute of Technology – Kolkata

B.Tech (Electrical)

2015 June – 2019 June

DGPA – 8.64

### Sri Ramkrishna Sikshalaya Howrah

WBCHSE – 12<sup>th</sup>

Mar 2013 - Mar 2015

Secured Marks 85%

### Sri Ramkrishna Sikshalaya Howrah

WBCHSE – 10<sup>th</sup>

Mar 2011 - Mar 2013

Secured Marks 90%

## CERTIFICATION

Certified React Developer  
Udemy - 2021

CSS Certification  
(Hacker Rank)

SQL Certification  
(Hacker Rank)

Node JS Certification  
(Udemy)

Certified Software Tester  
ISTQB Certified  
Foundation level – 2019

## PROFESSIONAL EXPERIENCE

### Tata Consultancy Services – Kolkata

System Engineer – Data Analyst

2020 Jan – Now

Optima – BASEL3 – Financial Risk Analysis

#### Roles and Responsibility

Ensure Data Quality in backend SQL databases which receives data from transactional and risk data sources. Impact Assessment on Risk Weighted Asset , General Ledger reconciliation and root cause analysis using correlation matrix.

#### Tools Used

Python , Pandas , Matplotlib ,Scikit-Learn, SQLAlchemy, Atlasian Jira

#### Improvement

Implemented Correlation Matrix to create an internal analysis and report generation tool to find the Data Quality Issues.

### Tata Consultancy Services – Kolkata

Assistant System Engineer – Full Stack Developer(PERN)

2019 July – 2019 Dec

Exposure Explain – Risk Management

#### Roles and Responsibility

Maintain and extend a PERN stack project to provide CITI's internal risk analyst and portfolio managers a UI portal for portfolio management and manual adjustment for different pricing model.

#### Tools Used

React,Redux, Express,Node , Express, Postgres, Sequelize,Chart.js, Git , GitHub

#### Improvement

Implemented a Portfolio visualisation section .Took ownership to develop a GraphQL API service for faster Fronted development .

## PERSONAL PROJECTS

### Indian Equity Market Analyser

Generates the risk return plot as per Modern Portfolio Theory(MPT) in context of Indian Equity Market .The system analyses data of last 10 years for 450 Equity Shares and helps an investor to spot the Efficient Frontier and Capital Allocation Line which help them to construct the optimum portfolio .

#### Tools Used –

Python , Pandas , Scipy , SQLAlchemy, Heroku , Chart.js,Bootstrap

## COMMUNITY DEVELOPMENT

### COVID Vaccine Center Tracker

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 like address, fees ,availability, vaccine types etc. The web app is served by an express server hosted on heroku .

#### Tools Used –

NodeJS, Express,Bootstrap

## SKILLS

### Frontend

HTML5

CSS | Bootstrap

JavaScript

React | React- Redux

Chart.js

### Backend

Node.js | Express.js

Sequelize | Mongoose

Python | SQLAlchemy | Pandas

MySQL | PostgreSQL | SQLite

MongoDB | Google Firebase

GraphQL

### Programming Languages

Python3

JavaScript (ES6 and ES5)

SQL

Java (limited proficiency)

### Analytical Skills

Linear Regression

Logistic Regression

Correlation Analysis

Monte-Carlo Simulation

Principle Component Analysis(PCA)

Fourier Analysis

Data Structure and Algorithm

### Others

Git & GitHub

NPM

Heroku

DBEaver

Atlasian Jira

Excel Pivot

Jupyter Notebook

## ACHIEVEMENTS

Cleared TCS Codevita-2019  
Round-1

Member of winning team in  
Circuitstics-2016  
Jadavpur University  
Convocation 2016