

Tamal Das

Full Stack Software Engineer | QA Analyst
Interested in front end and backend development role
which involves data analysis and visualisation



Contact Details

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GitHub - <https://github.com/tdas-kolkata>
LinkedIn - <https://www.linkedin.com/in/tamaldas177>
Portfolio - <https://tamaldas177.herokuapp.com>

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

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%

PROFESSIONAL EXPERIENCE

Tata Consultancy Services – Kolkata

System Engineer – Quality Assurance Analyst
2020 Jan – Now

Roles and Responsibility

Understanding business requirement and prepare test scenarios.
Co-ordinate the changes from upstream and propagate them to
to downstream .Functional validation of the changes from
backend SQL database . *Impact assessment on exposure at default
and risk weighted asset based on correlation matrix .*

Tata Consultancy Services – Kolkata

Assistant System Engineer – Node Backend Developer
2019 July – 2020 Dec

Roles and Responsibility

Plan to extend or create RESTful API endpoints based on the
business requirement. Plan and develop optimized SQL to fetch data
from backend postgresSQL database and implement the REST API
endpoint in Node and Express.

SKILLS

Frontend

HTML5
CSS | Bootstrap | SCSS
JavaScript
React | React- Redux
Chart.js

Backend

Node.js | Express.js (Server)
Sequelize | Mongoose
Python | SQLAlchemy | Pandas
MySQL | PostgreSQL | SQLite
MongoDB | Google Firebase

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

OTHER RELEVANT TOOLS

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

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 .

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 .

Sudoku Solver - JavaScript

Created a front end solution where user can select the sudoku grid size
and give the input and the puzzled is solved using frontend javascript
implementing the Backtrack Algorithm.

Python Neural Network Module for Multi Layer Perceptron

Developed a simple python library which uses back propagation
algorithm for multi layer perceptron using only Numpy as dependency
which provides Keras like high level api so that users can define their
own dense network and train it on their dataset .