Tamal Das

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

Contact Details
Email – tamaldas177@gmail.com
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GitHub - https://github.com/tdas-kolkata
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Portfolio - https://tamaldas177.herokuapp.com

CERTIFICATION

Certified React Developer Udemy - 2021

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
Joined a Global Quality Assurance team (BASEL) and working for
a leading US based banking client .

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
Joined a Node backend development team and worked for a
leading US based banking client .

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 postgreSQL database and implement the REST API
endpoint in Node and Express.

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 .

SKILLS

Frontend

HTML5
CSS | Bootstrap
JavaScript
React | React Hooks | Redux
Chart.js

Backend

Node.js | Express.js (Server)
Python | SQLAlchemy | Pandas
MySQL | PostgreSQL (SQL Database)
MongoDB | Mongoose
(Limited Proficiency)

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 RELEVENT 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