# Tamal Das

Full Stack Software Engineer

Interested in front end and backend development role

**Contact Details**
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Portfolio - https://tamal-app.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 co-relation 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 Screener
Collected 10 years of historical price data for top 450 indian equity shares(NIFTY,NIFTY50,NIFTY-MIDCAP-100 ,NIFTY-SMALL-CAP250) and then did the risk return analysis on one day rolling return .
It generates a scatter plot of 450 points in risk return space which can be used to visualize sharpe ratio, efficient frontier and helps users to pick shares with good sharpe ratio to construct their 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 .

## SKILLS

### Frontend

**HTML5**
**CSS | Bootstrap**
**JavaScript | React.js | P5.js**

### Backend

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

### Programming Languages
**Python3**
**JavaScript (ES6 and ES5)**
**SQL**
**Java (limited proficiency)**

### OTHER RELEVENT TOOLS

**Pandas (Python)**
**Linear Regression**
**Git & GitHub**
**NPM**
**Heroku**
**DBeaver**
**Atlasian Jira**
**Excel Pivot**
**Jupyter Notebook**
**HP Quality Center**

### ACHIEVEMENTS

**Cleared TCS Codevita-2019 Round-1**

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