

# Samarth Agrawal

Software Engineer (Stamp 1G)

Experienced software engineer with a focus on building responsive web and mobile applications using Angular and React.

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## WORK EXPERIENCE

### Systems Engineer

#### Tata Consultancy Services (TCS)

01/2023 - 08/2023

Bengaluru, India

- Built responsive webpages using **Angular, Redux, NgRx, RxJS** and integrated multiple **REST** APIs to onboard over 70000 users to the TCS BANCS platform.
- Led a team of 3 developers to enhance UI by improving **SCSS** styling, ensuring rich and consistent website rendering across all major browsers and mobile platforms leading to improved user experience.
- Reduced web page rendering time by 5% using custom pipes and directives, enhancing **SEO** metrics.
- Executed routine testing and debugging with Chrome Dev Tools, managed CI/CD build deployments, and maintained version control for over 6 UI repositories using Git.
- Participated in code reviews and knowledge sharing sessions.

### Application Development Associate

#### Accenture

02/2021 - 08/2022

Bengaluru, India

- Upgraded web components from Angular v11 to v12 and implemented lazy loading modules, boosting website performance by up to 20%.
- Developed a scalable home automation website using the PrimeNG UI library, translating wireframes into responsive and reusable web components.
- Developed a responsive Pizza ordering website with Angular Material, Node.js, ExpressJS and MongoDB, ensuring order history persistence across page transitions and network disruptions.
- Optimised a **ReactJS** based website by updating outdated npm packages, leading to improved performance, security, and compatibility with modern browsers.
- Using Karma, Jasmine, and Jest for unit testing, achieved over 90% code coverage.
- Collaborated closely with cross-functional teams (designers, backend developers, and QA engineers) in **Agile SCRUM** environments to deliver business requirements on time.

## EDUCATION

### M.Sc. in Computer Science, Major in Future Networked Systems

#### Trinity College Dublin

09/2023 - 09/2024

Dublin, Ireland

### B.E. in Computer Science

#### Bangalore Institute Of Technology

08/2016 - 08/2020

Bengaluru, India

## SKILLS AND TOOLS

Angular

React

Javascript

React Native

Typescript

HTML

CSS

PrimeNG

Tailwind

Gluestack

Bootstrap

Node.js

ExpressJS

MongoDB

Karma

Jasmine

Jest

Python

Bitbucket

VS Code

Git Bash

JIRA

Postman

## PROJECTS

#### Eco-Compass (09/2023 - 04/2024) [🔗](#)

- Developed a sustainable navigation application, similar to Google Maps for iOS and Android using React Native, Mapbox, and Gluestack UI.

#### Personal Portfolio (09/2024 - Present) [🔗](#)

- My website, built using Next.js and Tailwind CSS and deployed using Vercel.

#### Urban Sensor Application (09/2023 - 11/2023) [🔗](#)

- Engineered a Python Flask application leveraging OpenWeather API and AWS cloud components like S3 and EC2.

#### Covid-19 Dashboard (09/2023 - 11/2023) [🔗](#)

- Visualized global COVID-19 metrics by developing a dynamic dashboard with Tableau.

## CERTIFICATES

#### ATCI Tech Expressway Program (02/2021 - 03/2021) [🔗](#)

Consists of training and assessments taken on MongoDB, ExpressJS, NodeJS and Angular 11 by Accenture.

#### Structuring Machine Learning Projects (12/2019 - 01/2020) [🔗](#)

The course is part of Deep Learning Specialization by Andrew Ng on Coursera

## INTERNSHIPS / ORGANIZATIONS

#### Indian Institute of Information Technology Jabalpur

(01/2020 - 02/2020)

RESEARCH INTERN

#### Dublin University Computer Science Society (09/2023 - Present)

MEMBER

## LANGUAGES

English

Full Professional Proficiency

Hindi

Native Proficiency