

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, Express.js 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