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 and Kanban** 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