

Samarth Agrawal

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PROFESSIONAL EXPERIENCE

TATA CONSULTANCY SERVICES

Bengaluru, India

Systems Engineer

Jan 2023 - Aug 2023

- Built a migration tool page utilizing **Redux** tools and **state management** with **NgRx**, integrating multiple **REST** API calls to migrate the client's database from a third-party provider, smoothly onboarding over 70,000 users.
- Led a team of 3 developers to enhance **CSS** styling and write unit tests in **Karma** and **Jasmine** for the TCS BANCS platform, ensuring rich and consistent website rendering across all major browsers and mobile platforms leading to improved user experience.
- Achieved a 5% reduction in web page rendering time by developing custom pipes and directives, improving SEO rankings.
- Executed routine testing and debugging with Chrome Dev Tools, managed CI/CD build deployments, and maintained version control for over 6 UI repositories.

ACCENTURE

Bengaluru, India

Application Development Associate

Feb 2021 - Aug 2022

- Developed a home automation website utilizing the PrimeNG UI library, enabling seamless IoT device management.
 - Also upgraded web components from **Angular** v11 to v12 and implemented lazy loading modules, boosting website performance by 20%.
- Created a responsive Pizza ordering website with Angular Material for UI, developing APIs in **Node.js**, and utilizing **MongoDB** for scalable database management, ensuring order history persistence even during page transitions and network disruptions.
- Enhanced a **ReactJs** website by updating outdated npm packages, leading to improved performance, security, and better compatibility with modern browsers.
- Collaborated with over 60 developers and quality assurance engineers to successfully deliver two projects applying **Kanban** and **Agile SCRUM** methodology.

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

Jabalpur, India

Research Intern

Jan 2020 - Feb 2020

- Conducted a comprehensive comparative analysis of image classification ML models (CNN, LSTM, GRU, LR, SVM, and Gaussian NB), utilizing the NIST dataset of over 700,000 images aimed at providing valuable insights to help researchers select the most effective models for future AI-driven image recognition projects.

PROJECTS

- Developed a sustainable navigation application, similar to Google Maps for iOS and Android using **React Native**, Mapbox, and Gluestack UI, with **TypeScript** as the programming language and **Jest** for unit testing.
- Engineered a Python **Flask** application leveraging **AWS** cloud components like S3 and EC2, enabling real-time aggregation and monitoring of sensor data from over 1000 laptops.
- Visualized global COVID-19 metrics by developing a dynamic dashboard with **Tableau**.

EDUCATION

TRINITY COLLEGE DUBLIN

GRADE: 72%; FIRST CLASS

Dublin, Ireland

Master of Science in Computer Science; Major in Future Networked Systems

Sep 2023 - Sep 2024

BANGALORE INSTITUTE OF TECHNOLOGY

CGPA: 7.23/10; FIRST CLASS

Bengaluru, India

Bachelor of Engineering in Computer Science

Aug 2016 - Oct 2020

ADDITIONAL INFORMATION

- Other Skills and Tools: AngularJs, React, Javascript, HTML5, SCSS, Git Bash, ExpressJs, Postman, Docker, MySQL, Jira, Confluence, Bitbucket, WinSCP
- Member of Dubin University Computer Science Society (DUCSS)
- Languages: English; Hindi (native)
- Certifications: ATCI Tech Expressway Program for MEAN Stack (Accenture), Structuring Machine Learning Projects ([Coursera](#))
- Soft Skills: Problem-Solving, Communication, Teamwork, Critical Thinking, Documentation