

Mark D'Souza

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EDUCATION

National Institute of Technology Goa (NITG)

Bachelor of Technology, Computer Science Engineering (B. Tech CSE)

Goa, India

CGPA 8.81/10

WORK EXPERIENCE

Samsung R&D Institute India-Bangalore (SRIB)

Senior Software Engineer

Bengaluru, India

August 2022 – Present

- Demand-Side Platform (DSP)
 - Tech: **React, Ruby on Rails, AWS, Kubernetes, CI/CD, Logging and Monitoring**
 - Worked on the Demand-Side Platform which was responsible for matching Samsung's TV inventory to large-scale advertisers. Yearly revenue of this platform exceeded \$1B.
 - Performed feature development, upkeep, tooling improvements, CI pipeline improvements, deployments, lifeguard duty shifts and on-call shifts
- Demand-Side Platform Modularization
 - Tech: **React, AWS, Github Actions**
 - Spearheaded the division of the Demand-Side Platform monolithic repository into independently deployable modules, using AWS S3, AWS Cloudfront and Github Actions.
 - Minimized issues stemming from large build-times and large image sizes.
 - Isolated dependencies to individual modules to reduce the website's javascript bundle size, increasing the website's responsiveness and reducing the website's load time.
- CI Pipeline Improvements
 - Tech: **Github Actions**
 - Created a standardized Branch Naming Convention and Commit Naming Convention, linking git branches and commits to Jira, using Github Actions on Github and Husky in local environments.
 - Optimized several Github Actions to run only on code modifications, reducing costs for running virtual machines via AWS EC2.
 - Introduced code quality management platforms, namely, sonarqube via Github Actions and Sonarlist via VSCode extensions.
- Planning Management Module
 - Tech: **Go, PostgreSQL, AWS, Kubernetes**
 - Built the Planning Management Module which helped Advertising Operations optimise parameters and forecast before running them live.
 - Cut down the time required by Advertising Operations from hours to minutes by developing features such preset configurations, rolling timezone forecasts and configuration history logs.

SKILLS

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|--------------|------------------|-----------------|
| ● Java | ● Ruby | ● React |
| ● Go | ● Kubernetes | ● Grafana |
| ● Typescript | ● AWS | ● Ruby on Rails |
| ● Javascript | ● PostgreSQL | ● Spring Boot |
| ● C++ | ● Github Actions | |