

ARAVIND D

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Skills

Technologies: Next.js, React.js, Node.js, Spring/Spring Boot, Git, AWS, Angular, Docker, Linux.

Languages: JavaScript, Java, TypeScript, SQL.

Experience

Software Engineer, L&T Technology Services – Bengaluru, India.

2021– Present

Synamedia Smart-TV App Development:

2022– Present

- Built reusable **React** components shared across six clients with distinct UIs in a monorepo.
- Revamped the UI of the Astro-Smart-TV app, elevating the user experience.
- Optimized app performance by **30% reduction** in the initial load time.
- Implemented **localization** for multiple languages, including Hebrew with right-to-left support.
- Introduced a vertical scrolling component which optimizes DOM rendering for datasets surpassing 1000 items, improving app performance drastically.
- Executed API migrations, transitioning from a single API to personal and shared APIs, optimizing backend processes.
- Engineered a QR Code-based **Authentication** module for seamless login on Smart-TVs.
- Transformed the search screen through the integration of diverse components, including the addition of a voice module for an upgraded user experience.
- Enhanced user experience by implementing an audio codec fallback feature in the **DashJS Player**.
- Established a rate limiter for retrying failed API calls based on backend configuration, enhancing reliability.
- Played a key role in the successful upgradation of **DashJS Player** to the latest version, contributing to the enhancement of overall application functionality and performance.

Zee Entertainment Smart-TV App Development:

2021– 2022

- Crafted a robust subtitle feature that enabled the client to control text related settings from the back-end, resulting in a customizable viewing experience.
- Resolved several issues in **Shaka Player** to ensure smooth playback and optimal user experience.
- Designed content selection component for series, with multiple buttons and organized episode list, enhancing user engagement and retention.
- Revised the menu component and enabled back-end control of menu items.

Lightningjs Smart-TV App Development:

3 Months

- Created templates utilizing LightningJS to accelerate development processes.
- Implemented UI for Video Player using LightningJS API.
- Integrated APIs and improved the performance by minimizing the number of API calls.

Open Source

React

- Debugged and contributed to a fix in facebook/react codebase, addressing a missing attribute ([PR #26130](#)).

Projects

- Published multiple npm packages for React, which renders interactive SVG maps, and bundled it with Rollup.
- Authored an svg-data-extractor module to extract path data from SVG images, resulting in a 90% reduction in the time required for data mapping.
- Built a mock server which acts as a forward proxy to manipulate API status codes for feature testing.
- Developed back-end for a Chat Application with Node.js, Mongo, Socket.io, and integrated AWS services such as S3.

Education

PSG College of Technology – B.Tech in Information Technology

2020