

Ramesh Kumar Subramanian

Senior FrontEnd Developer

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Technologies and Languages

- **Languages:** JavaScript, TypeScript, Python, Java, HTML.
- **Tools/Technologies:** ReactJs, React Native, TanQuery, GraphQL, Redux, Redux-Saga, NodeJs, NextJs, Cypress, Jest, ReactNative, Docker, Kubernetes, AWS, Helm, GitHub Actions, Postgres, Kafka, ExpressJs, NestJs, Springboot, Sentry, Instana, Rollup, Babel, Webpack.

Work Experience

Senior Frontend Developer

DDAI/PnP team

Asper AI

Bengaluru, India

Jan 2025 – Present

- Led Major refactoring exercises across the application for modularity and coding best practices, thus reducing the onboarding time & ease of use for Developers.
- Directed a complex Next.js framework upgrade, ensuring compatibility and protection from key web vulnerabilities
- Integrated Elastic APM into the application which has helped quickly find issues in Production environments & helped track key web vitals.
- Participated in AI Hackathon and created a Planner agent which can dynamically select tools & agents based on the query. Used **LangGraph**.

Software Developer

Technical Services team

Yara Digital Farming India

Bengaluru, India

Aug 2020 – Dec 2024

- Developed **Inventory** Management, **Order** Management and **Content Feed** UIs for Web App (React), employing responsive design, reusable components and UX/UI optimizations to improve user engagement by **60%**, as measured by increased user interaction metrics.
- Led the development of a Web app (React) for **GTM teams**, which streamlines the management of Users, User segments, Products, Rewards, and Invoices, thereby enhancing **operational efficiency**.
- Optimized Content delivery & reduced Server load by **60%** through establishing **CDN** for Web Application which serves a million people and bolstered security by incorporating WAF, thwarting 10% of common exploits.
- Improved the performance of React application by Achieving a **2.5x reduction in screen loading time** which significantly elevated the user experience.
- Engineered an Advanced Coupon section (UI) with features of Auto-Apply Coupon & Search for Web App, contributing to the enhanced user-friendliness for the order flow.
- Streamlined the process of Building and Testing for Web (React) & RN app by implementing CI/CD pipelines using **GitHub Actions**. Automated code-signing & pushing to App stores using Fastlane.
- Created SDKs/packages for React components & structured logging which is consumed by other teams in the org.
- Introduced code coverage tracking within CI pipelines & presided bug bash sessions to improve on code quality.
- Enhanced the Production issue resolution process and implemented standardized Standard Operating Procedures (SOP) for the team, minimizing the occurrence of future production incidents.
- Revamped & engineered the migration of our **Customer Support** module from an **Mobile SDK** to a **Microservice**. Consequently, promoting the reuse of the same functionality across all client-side applications.
- Enabled **real time push notifications** for new Knowledge content to a million users by using **Kafka** with the Content management service to handle high throughput & scalability.

- Worked as a **CAE Process Automation Intern** gaining experience in Python & JavaScript for automation projects.

Certifications

- AWS Developer Associate Certification @ **2023** – [Certificate Link](#)
- Neural Networks and Deep Learning Certification from DeepLearning.AI

Education

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|---|------------------|
| • M.Tech – Engineering Design with 8.72 CGPA from Amrita University, Coimbatore | 2018–2020 |
| • B.E – Aeronautical Engineering with 6.4 CGPA from Park CET, Coimbatore | 2013–2017 |
| • 12th grade with 91.9% from SJSSJS School, Tirunelveli | 2012–2013 |
| • 10th grade with 91.0% from SJSSJS School, Tirunelveli | 2010–2011 |

Projects

- **DDAI (Dynamic Demand AI)** – AI product which helps forecast demand of CPG goods & also helps simulate how the demand is influenced by various factors so that the manufacturers can align their product distribution across geography, Distributors & Product types. Used **React, TS, TanQuery, GraphQL**
- **Yara-Bodega** – Fertilizer marketplace for Farmers, has features for making orders, applying coupons, Search nearby Shops. Used **NextJs, Redux & MUI**.
- **Admin Portal** – Internal Web App for GTM teams that has features for Managing Users, User segments, Products, Rewards and Invoices. Used **React, Redux-saga, Redux & MUI**.
- **Product Service** – A central MicroService that handles Management of Products, which is used by 2 ClientSide applications and a Microservice. Used **NestJs, MongoDB & CDN** for caching.
- **Invoice Service** – MicroService that handles creation of Invoice for user redemptions, which is used by 2 microservices. Used **NestJs, PostgresDB & Kafka**