Ramesh Kumar Subramanian

Senior FrontEnd Developer

srk3895@gmail.com • (+91)-8015410768 • **LinkedIN**

Technologies and Languages

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

Work Experience

Senior Frontend Developer   **Asper AI**   **Jan 2025 – Present**
DDAI/PnP team   Bengaluru, India

- 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   **Yara Digital Farming India**   **Aug 2020 – Dec 2024**
Technical Services team   Bengaluru, India

- 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.

Intern   **General Motors, TC India**   **Aug 2019–Dec 2019**

- 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

- **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**