

SHIVA KARTHIK Y

Senior Front-End Engineer (React • TypeScript • MUI)

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Professional Summary

Front-end engineer with 8+ years building data-intensive apps in React, TypeScript, MUI, Redux-Saga, and React Query. Known for launching greenfield products as a solo FE owner, partnering tightly with backend and business stakeholders, and turning fragmented legacy tools into fast, cohesive internal platforms with measurable productivity gains.

Core Skills

React, TypeScript, JavaScript (ESNext), Responsive UI, NextJS, Material UI, Redux / Redux-Saga, React Query, Axios, Data-grid virtualization, Recharts/charting, Performance tuning (memoization, code-splitting), Accessibility, Jest & React Testing Library, CI/CD, REST APIs, Agile/Scrum, GIT

Experience

Web Synergies — Senior Front-End Engineer

Aug 19, 2024 – Present | Client: Schreiber Foods | Project: OPERA (Manufacturing Ops Platform)

Stack: React, TypeScript, Material UI, Redux-Saga, React Query, Axios

Scope: Solo FE from day-1; built OPERA from scratch; collaborated with backend team, business heads and BAs across plants: NOB – NobleJas, STO – Schreiber Foods UK Ltd, TAL – Talavera de la Reina, TEN – Tenerife, CAS – Castelo Branco.

Key Contributions

- Designed FE architecture (module structure, server-state caching, state orchestration, error boundaries, i18n hooks).
- Built reusable UI primitives & feature modules: high-density tables, charts, filter panels, form engine, export & audit trails.
- Implemented React Query for server-state and Redux-Saga for long-running workflows; standardized Axios clients & typed API models.
- Delivered performance baselines: DataGrid virtualization, suspense-style loading, code-splitting, memoized selectors and list rendering.

Impact (measurable)

- Unified 5 plants onto one web app (replacing 10+ fragmented tools/spreadsheets) → 100+ monthly active internal users across NOB/STO/TAL/TEN/CAS.
- Cut report TAT from ~1 day of manual collation to < 15 minutes via one-click exports and pre-filtered dashboards.
- Improved page load from ~4.5s → ~2.2s (-51%) and heavy table render from >1.2s → <300ms using virtualization & caching.
- Reduced duplicate data entry ~60% and UI-related support tickets ~35% after two release iterations (usability + validation).
- Increased data accuracy ~30% by enforcing typed forms, mandatory validations and server-side checks.
- Shipped v1 in 10 weeks and sustained bi-weekly releases with <2% regressions using Jest/RTL smoke suites.

Modules: AutoControl, Cleaning Registry, Diary Book, CIP (dashboards, interval timers, frequency-based polling, line-status workflows, exports).

WondermentApps — Senior Software Engineer

Jun 2024 – Aug 2024 | Bengaluru

Stack: ReactJS, Redux Toolkit, React Query, TypeScript, Tailwind CSS

Significant Highlights

- Spearheaded development of a cutting-edge application with a robust, scalable architecture to meet complex client requirements.
- Engineered and deployed dynamic tables, interactive charts, and authentication forms (login/signup) to enhance UX and functionality.
- Configured and optimized the project environment, integrating essential tools and libraries for performance and efficient workflow.

Lifesight – Moda — Software Engineer

Oct 2022 – May 2024 | Bengaluru

- Built trendline & cohort analytics and data-heavy tables; improved reliability of integrations.
- Drove Next.js marketing site migration and FE performance improvements; React, TypeScript, SCSS, Redux-Saga.

Jitfin (JiT Techlabs) — Front-End Engineer II

Aug 2021 – Oct 2022 | Bengaluru

- Delivered SPA features, transactional analytics graphs, and marketing email flows.
- Introduced Dockerized CI/CD and Node.js microservices for selected workloads.

Happay (VA Tech Ventures) — Web Developer

Jun 2017 – Jul 2021 | Bengaluru

- Mentored juniors; improved Lighthouse to ~90, cutting load times from ~8s to <3s.
- Shipped product dashboards in React/Redux/SCSS with robust state management.

Freelance — Web Developer

Aug 2016 – May 2017 | Bengaluru

- Delivered responsive websites in HTML/CSS/JS; client communication and delivery ownership.

TESCO — Portal Administrator (Non-Tech)

Jun 2015 – Jul 2016 | Bengaluru

- Managed access/roles across EU/APAC; audits and portal operations performance tuning.

Hewlett Packard (Net Connect) — Administrative Assistant (Non-Tech)

May 2014 – Jun 2015 | Bengaluru

- KPI audits, QA testing, and Excel-based reporting (VLOOKUP, Pivot).

Selected Technical Highlights

- Tables at scale: Virtualized DataGrid with sticky headers, column-resizing, persisted column order/widths, CSV/XLSX export, server-side pagination and debounced search.
- State & data: React Query (caching, prefetch, retries), Redux-Saga for long-running flows (e.g., CIP/line-status updates), optimistic UI + rollback.
- DX & quality: Modular folder strategy, strict TypeScript, ESLint/Prettier, Jest/RTL smoke tests, API type guards, env-driven config.
- Perf & UX: Code-split routes, memoized selectors, Suspense loaders/shimmers, A11y (WCAG), form validation and error surfacing.

Education

BCA, CMR Institute of Technology & Management — 2015