

PIYUSH RAJPUT

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SUMMARY

Senior Frontend Engineer with nearly 6 years of experience building enterprise web applications across fintech, banking, and manufacturing domains. Strong React/TypeScript background, with a focus on microfrontend architecture, state management, and component-driven development. Also have hands-on exposure to RAG and LLM-integrated systems from recent work at Publicis Sapient.

EXPERIENCE

Senior Experience Engineer (Frontend)

July 2024 – Present

Publicis Sapient

Pune, India

- Currently working on **CCP (Colleague Channels Platform)** for Lloyds Banking Group – modernizing a legacy internal platform used by branch staff, contact centre agents, and lending teams.
- Contributing to a microfrontend migration where sub-apps are loaded in iframes, with auth context passed via a secure token in the query param.
- Built the frontend for **Knowledge Initiative (KI)**, a RAG-based internal Q&A system for CPPIB – owned component architecture, API integration, and delivery across multiple sprint cycles.
- Worked with backend and ML teams to integrate LangChain retrieval, vector DB search, and Athena metadata into the chat UI.

Software Engineer

September 2023 – July 2024

iBase-t India Software Pvt. Ltd.

Pune, India

- Used a specialized SDK to dynamically generate forms and read-only field components from JSON config – cut down a lot of repetitive form code.
- Split a large codebase into 40+ monorepo packages so teams could work and ship independently.
- Contributed to Solumina I-Series, iBase-t's manufacturing operations platform, as part of a cross-functional team serving Aerospace & Defense and medical device clients.

Software Engineer

November 2020 – September 2023

ScaleReal Technologies Pvt. Ltd.

Pune, India

- Built scalable, responsive web apps following Atomic Design and TDD in an Agile/Scrum setup.
- Improved performance and SEO via Lighthouse/PageSpeed optimization on several pages, taking scores from the 50s up to 90+; ensured cross-browser compatibility throughout.
- Delivered production UIs across multiple client engagements spanning hospitality, healthcare, and fintech domains (Logistics, TangoRx, DealSafe).

PROJECTS

CCP – Colleague Channels Platform | *ReactJS, TypeScript, Redux Toolkit, Microfrontends, Internal Component Library*

- Working on frontend modernization for Lloyds Banking Group's Colleague Channels Platform (CCP), the internal platform branch staff, contact centre agents, and lending teams use day to day.
- Helped move pieces of a legacy stack (MCA, PBS) over to a microfrontend setup – sub-apps load in iframes and get their auth context through a token in the query param.
- Built customer servicing and lending journey screens used by thousands of colleagues across the bank.

Knowledge Initiative (KI) | *ReactJS, TypeScript, Redux, REST APIs, Streaming UI*

- Built a streaming chat UI for CPPIB that lets users query 1 lakh+ private PDFs in plain English – handled real-time token streaming, loading states, and fallback when the model has no relevant context.
- Designed and built a knowledge base selector component – lets users switch between isolated document collections (Legal, Finance, HR), each with its own state and context.
- Worked on the admin dashboard UI – surfaced metadata like PDF counts and ingestion status pulled from the backend.
- Integrated with RAG backend APIs (LangChain, vector DB, AWS Athena) to wire retrieval results into the chat interface.

Solumina I-Series | *ReactJS, Redux, LernaJS, Jest, React Testing Library, GitLab*

- Built out MES, SQM, MRO, and EQMS modules for iBase-t's cloud-native manufacturing platform.
- Worked on UI for inspection planning and non-conformance tracking, tying shop-floor data back to ERP/PLM systems via REST APIs.
- Built an internal JSON-based forms library – pass in a JSON schema and it renders the form fields, used across multiple modules to cut down repetitive form code.
- Sat in on agile planning and turned business asks into actual technical specs for the dev team.
- Collaborated with the team to expand unit test coverage across critical operational workflows using React Testing Library and Jest.

Lodgistics | *ReactJS, Jest, React Testing Library, Redux, Material UI*

- Cloud-based hotel ops software – helped cut down manual work and operational costs for hotel staff.
- Hooked up Twilio for the Guest Connect messaging feature, which handled 500+ guest interactions a day.
- Used Action Cable (WebSockets) so updates showed up live without refreshing.
- Wrote a bunch of HOCs that ended up cutting repetitive code roughly in half and trimmed bundle size too.

TangoRx | *ReactJS, TypeScript, Jest, Redux, Redux-Sagas, Styled-Components*

- Healthcare app for primary care providers, spread across 20+ modules.
- Set up Redux Sagas for async data, built 8+ custom hooks and HOCs along the way.
- Built patient management and pharmacy workflow screens supporting Federal 340B program compliance for community health providers.
- Integrated the frontend with a Kotlin/Postgres backend running on AWS Lambda to power real-time data in the app.
- Put together a quick POC for Mixpanel.

DealSafe | *ReactJS, TypeScript, GraphQL, Redux, Redux-Sagas, Styled-Components*

- Built the escrow flow UI – fund holding, release conditions, and status tracking – so both buyer and seller could see deal progress transparently.
- Switched to GraphQL for data fetching (cut requests by ~40%) and added a handful of Ant Design charts for the dashboards.
- Secure transactions platform, handling 1000+ deals/day between parties.
- Set the project up from zero – Webpack, Babel, Redux Sagas across 15+ modules.
- Integrated the React frontend with a Django/Postgres backend via REST and GraphQL APIs, keeping transaction state in sync across web and Flutter mobile.

TECHNICAL SKILLS

- **Languages:** HTML, CSS, JavaScript, TypeScript
- **Libraries & Frameworks:** React.js (ReactJS), Next.js, React Native, Redux, Redux Toolkit, Jest, React Testing Library, Styled-Components, Material UI
- **Architecture:** Microfrontends, Monorepo, Atomic Design, Component Libraries, Responsive Design
- **Testing:** Unit Testing, Integration Testing, TDD, Jest, React Testing Library
- **Performance:** Code Splitting, Bundle Optimization, Lighthouse, PageSpeed, Cross-browser Compatibility
- **APIs & Integration:** REST APIs, GraphQL, WebSockets
- **RAG/AI:** LangChain, Vector DBs, AWS Athena, Prompt Engineering
- **Tools & Workflow:** Git, GitHub, GitHub Actions CI/CD, Webpack, Babel, Agile, Scrum
- **Databases:** MongoDB, Firebase Firestore

CERTIFICATIONS

- **GenAI – The Basics** – Publicis Groupe (Jan 2025)
- **Using Gen AI – Text** – Publicis Groupe (Feb 2025)
- **AI Trends – Emerging Technologies** – Publicis Groupe (Mar 2025)

EDUCATION

D.Y. Patil College of Engineering
Bachelor of Engineering — CGPA: 8.45

Pune, Maharashtra
August 2018 – June 2021

EXTRACURRICULAR

- **Technical Writing:** Published 2 articles on frontend development on Medium.
- **Open Source:** Contributed to JalgaonCohelp, a platform providing COVID-19 resources for Jalgaon district residents.