

Pratya Kumar Tagore

Frontend React.js Engineer

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SUMMARY

Frontend React.js Engineer with expertise in **React.js**, **JavaScript (ES6+)**, and **TypeScript**, building **scalable, high-performance, and user-focused web applications**. Skilled in developing **responsive UIs**, **reusable components**, and **interactive dashboards** using **Material UI**, **Ant Design**, and **modern frontend tooling**. Hands-on experience with **REST APIs**, **WebSockets**, and **Keycloak authentication**. Strong knowledge of **Redux**, **Redux-Saga**, **Webpack**, and **Babel** for efficient state and build management. Adept at **cross-browser compatibility**, **performance optimization**, and **testing (Jest)**. Recognized for strong **problem-solving**, **collaboration**, **attention to detail**, **adaptability**, and **continuous learning mindset**.

EXPERIENCE

Techademy, Junior Frontend Engineer

09/2023 – Present | Pune, Maharashtra

Techademy Learning Solutions is a digital learning platform focused on enterprise upskilling, reskilling, and talent development.

- Developed and maintained **assessment platforms supporting 12 question types**, including **coding assessments**, **cloud-based assessments**, and **interactive problem-solving tasks**, with features like in-browser IDEs, non-editable code sections, test case execution, and dynamic language support.
- Built the **Techademy CodeBridge VS Code extension**, integrating secure login (email & OTP), Git repo cloning, timer synchronization via WebSocket, code execution, and submission workflows.
- Implemented **real-time proctoring** and **analytical dashboards**, enabling candidate monitoring, hackathon leaderboards, and assessment insights for admins.
- Designed and implemented **program and user management features** for Techademy Campus, including **Keycloak-based authentication**, role-based onboarding, assessment repositories, and interactive dashboards.
- Collaborated with designers and backend engineers to deliver **responsive, interactive web applications** using **React**, **Redux**, **Redux-Saga**, and **Material-UI**.

SKILLS

Frontend – React.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Redux, Redux-Saga, JSON, Webpack, Babel, Material UI, Ant Design, Responsive Design, Cross-Browser Compatibility

Backend (Basic) – Node.js, Express.js, MongoDB, Firebase

APIs & Tools – REST API, WebSocket, Render, Vercel

Testing – Jest

Other (Technical & Soft Skills) – Git, GitHub, NPM, Yarn, Performance Optimization, Agile / Scrum, Problem-Solving, Collaboration, Attention to Detail, Continuous Learning

PROJECTS

Yaksha Assessment Platform, Techademy | Jr Frontend Engineer

07/2024 – Present

- **Coding Assessment Platform**: Developed a **React.js single-page app** for coding assessments with **in-browser IDEs**, **non-editable code sections**, **test case execution**, and **dynamic language support**.
- **Candidate Login Flow**: Designed a flow to **view live assessments**, **display results analytically**, and **allow result downloads**, along with an **analytical dashboard**.
- **Product Catalogue**: Built a feature for tenants to **view**, **request**, and **add skills and categories** to their catalog.
- **Timer for Test Takers**: Implemented a **timer** to enforce a **minimum submission duration** during tests.
- **Hackathon Leaderboard**: Developed a **leaderboard** in user profiles to display **hackathon ranks and performance**.
- **User Analytics for Admins**: Created a feature to **view assessment data** with **analytics for enrolled users**.
- Optimized **loading performance and responsive design** for cross-device compatibility.

Techademy CodeBridge VS Code Extension,

06/2025 – 07/2025

Techademy | Jr Frontend Engineer

Pune, India

- Built a VS Code extension integrated with Yaksha Assessment Platform to support VM-based coding assessments.
- Implemented secure login via email & OTP, automatic Git repo cloning, and workspace initialization.
- Developed Webview UI with timer sync, save code, execute test cases, and submit assessment features through WebSocket and local server.
- Integrated **real-time proctoring** by dynamically loading React-based monitoring scripts in the plugin for **proctored vs non-proctored assessments**.
- Ensured seamless assessment submission with bidirectional timer communication and automated repo cleanup post-submission.

Techademy Campus (B2A), Techademy | Jr Frontend Engineer

09/2023 – 07/2024

Pune, India

- **Identity Management:** Integrated **Keycloak Identity Provider** for **secure authentication**, ensuring compliance with modern security standards.
- **User Management:** Designed and implemented a seamless **onboarding process** for users with different roles.
- **Program Management:** Developed features for **creating and managing programs**.
- **Assessment Repository:** Created a feature enabling instructors to **assign tests** and students to **take assessments**, streamlining the evaluation process.
- **Dashboards:** Built **interactive and role-specific dashboards**.

Flixxit, Capstone Project – MERN Stack Web Application | upGrad

Apprenticeship

- Developed a **full-stack OTT platform** using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** to deliver a dynamic, immersive video streaming experience.
- Implemented **data fetching with Axios**, **global state management with Redux**, and secure user authentication using **JWT tokens**.
- Integrated **React-Player** for smooth video playback, **Razorpay** for secure payment processing, and **Material-UI tables** with **Font Awesome icons** for interactive UI components.
- Built **server-side admin signup and management** using the **Pug view engine** for streamlined platform administration.
- Collaborated on frontend-backend integration to ensure **responsive, seamless, and user-friendly interfaces** for end-users.

CERTIFICATION

Fellowship in Software Development - Frontend

Crio.do(2025)

Material UI - The Complete Guide With React (2024) Edition

Udemy (2024)

Full-Stack Development Bootcamp

KnowledgeHut upGrad (2023)

EDUCATION

Full-Stack Web Development Apprenticeship (MERN Stack), upGrad

08/2022 – 07/2023 | India

- Completed an intensive apprenticeship program focused on the **MERN stack** (MongoDB, Express.js, React.js, Node.js).
- Practiced **API development, database integration, responsive frontends, deployment, and debugging** in real-world scenarios.
- Delivered a **Capstone Project** as part of the program (detailed under *Projects*).

B.tech in Electrical Engineering, Meghnad Saha Institute Of Technology

2016 – 2020 | Kolkata, West Bengal

LANGUAGES

English – Native | Bengali – Native | Hindi – Advanced