

Birendra Prasad Gupta

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Summary

Senior Frontend Engineer with **4 years of experience** building scalable, high-performance SaaS applications using **React and TypeScript**. Specialized in **component-driven architecture, SDK-integrated UI systems, and low-code/no-code frontend platforms**. Led development of production-grade embeddable widgets and reusable NPM packages, modernized frontend infrastructure, and improved developer integration workflows. Strong expertise in scalable state management, performance optimization, and cross-framework UI engineering (React, Angular, Vue).

Technical Skills

Core Expertise: React.js, TypeScript, JavaScript (ES6+), Redux, Redux-Saga, Component Architecture, Performance Optimization, SDK REST API Integrations

UI Frameworks: Ant Design, Next.js (working knowledge), Angular (working knowledge), Vue.js (working knowledge), HTML5, CSS3

Tooling: Git, GitHub, Vite, Webpack, NPM, Postman, Figma

Backend Exposure: Node.js, Express.js

Work Experience

Software Developer

CometChat, India

Jan 2024 – Present

- Architected and developed the **Visual Chat Builder (VCB)**, a low-code configuration platform enabling developers to generate production-ready chat applications with customizable UI and feature toggles.
- Designed and published a reusable NPM package ([@cometchat/chat-embed](https://www.npmjs.com/package/@cometchat/chat-embed)) to standardize chat embedding and streamline dashboard-to-application integrations.
- Built the **AI Agents No-Code Widget (V1)**, a lightweight embeddable frontend system enabling rapid AI agent deployment with minimal integration effort.
- Replaced legacy chat widget architecture with VCB across no-code and code platforms (WordPress, Webflow, Bubble, HTML, Bootstrap, jQuery), improving integration consistency and long-term maintainability.
- Developed core **v5 React UI Kit components** (UserList, GroupList, ConversationList, etc.) following scalable component-driven design principles aligned with SDK compatibility.
- Contributed to cross-framework UI Kit stability (React, Angular, Vue), resolving structural issues and improving performance consistency.
- Led frontend infrastructure modernization of the CometChat Dashboard:
 - Migrated legacy setup based on **react-app-rewired** to a more maintainable configuration using **CRACO**
 - Upgraded Node.js runtime (v14 → v20) and aligned project dependencies with modern LTS ecosystem
 - Updated React, TypeScript, Ant Design, and build tooling to supported versions
 - Refactored custom webpack overrides and improved build stability
 - Reduced technical debt and improved long-term maintainability and security posture
- Implemented multi-step onboarding workflow with OAuth (Google GitHub), improving developer activation experience.
- Delivered enhanced Push Notification configuration system with scheduling logic and customizable delivery controls.
- Contributed to dashboard UI revamp, improving UX consistency and frontend architectural structure.

Associate Software Developer

CometChat, India

Jan 2023 – Dec 2023

- Built AI Bot Management, AI Personality configuration, and AI Settings modules integrated with OpenAI APIs.
- Developed AI-powered features including smart replies and conversation summaries within Angular UI Kit.

- Engineered Call Logs module with structured state management, call history tracking, and recording access.
- Built Vue v4 UI Kit core components from scratch ensuring SDK compatibility and reusability.
- Optimized API integration patterns and reduced redundant calls, improving dashboard responsiveness.
- Created Push Notification sample applications for React and Vue UI Kits to standardize integration patterns.

Trainee Software Engineer

CometChat, India

Aug 2022 – Dec 2022

- Trained across React, Vue, Angular ecosystems and CometChat SDKs (Chat SDK, Call SDK, Chat Widget, Chat API).
- Debugged and resolved SDK integration issues for client implementations.
- Progressed to independently handling production-level technical support cases.

Jr Structural Detailer

TechFlow Engineers, Mumbai

May 2019 – Aug 2021

Site Supervisor

Radhika Construction, Pune

Jul 2018 – Apr 2019

Education

Masai School

Full Stack Web Development Course

Sep 2021 – Jul 2022

ARMIET, Mumbai University

B.Tech in Civil Engineering

Jul 2015 – Jul 2018