Prithviraj Sengupta
Senior Front-End Developer
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Professional Summary

Senior Front-End Developer with over 12 years of experience in building scalable, responsive web and native applications. Proficient in modern JavaScript frameworks including React 18, Next.js, and TypeScript. Deep expertise in JAMstack architecture, accessibility (WCAG), and performance optimization. Proven record of delivering enterprise-grade solutions across FinTech, InsurTech, RegTech, and Telecom industries. Skilled in GraphQL, Docker, CI/CD, and cloud deployment via Vercel, Jenkins, and GitLab pipelines.

Key Skills

Architecture Patterns: Micro Frontends, JAMstack, Monorepo Architecture, Component-Driven Architecture, Progressive Web App (PWA)
Frontend Frameworks: React 17/18, Next.js, Redux, Flutter/Dart, React Aria, Material-UI, Tailwind CSS, Bootstrap
Languages: JavaScript, TypeScript, HTML5, CSS3, SCSS, JSS
Testing Tools: Jest, Playwright, Jasmine, Protractor
Testing Types: Unit Testing, Integration Testing
Build & Tooling: Webpack, GULP, Babel, NPM, Yarn, Million.js, RSBuild, SEO Optimization
APIs & Backend: RESTful APIs, GraphQL, Node.js, MongoDB, Sanity CMS
DevOps & Deployment: Docker, Jenkins, GitLab CI/CD, Vercel, AWS, GCP
Monitoring & Analytics: New Relic, mParticle
Design & Collaboration: Figma, Adobe Photoshop, Jira, Confluence, ServiceNow

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Professional Experience

Senior Front-End Developer
Bell Media, Canada | Jun 2024 – Present
Crave Expansion Bell Media

Technologies used:
Next.js, GraphQL, HTML5, Tailwind CSS, Apollo Client, JSON, Yarn, Jasper Player, Norigin Spatial Navigation, React Aria, New Relic, mParticle, Turborepo, Jest, RSBuild

Software:
VS Code, Tizen Studio, webOS Studio, SourceTree, Jira, Figma, Gitlab

- Developed a subscription-based Video on Demand (VoD) application using Next.js and React, implementing seamless user experience and efficient content delivery owned by Bell Media
- Worked on JAMStack Architecture, using Next created statically generated sites that can be fetched as starting point for app. Subsequent routes are client pages. This allows better (SEO Optimization).
- All content and language in application is driven by GraphQL data queries. Integrated Jasper Player, this is a media player framework for audio or video playback. Has built in support for features like streaming, media controls, and playback management.
- React Aria was used for accessible user experience. The app was compliant with Web Content Accessibility Guidelines.
- Used monitoring tools like New Relic (monitored performance metrics) and mParticle(tracking customer data).
- chose RSBuild for its performance optimization capabilities, such as tree shaking, code splitting, and minification.
- Defined custom TypeScript types for Sanity CMS, deployed the backend using Vercel, and integrated the CMS into a Next.js application.
- Worked on tools like Confluence, Jira and Figma.
- Used Gitlab CI/CD for cloud deployment

Senior Front-End Developer
Bell Canada | Apr 2023 – Jun 2024
One View Common Solution(Retail Qualification/ Residential Configuration)

Technologies used:
React 18, Jest, NodeJs, GraphQL, Redux, Playwright, HTML5, Material-UI, RESTful API, JSON, SCSS, GULP, Webpack, Babel, NPM
Software:
VS Studio 2017, VS Code, SourceTree, Jira, Figma, Postman, Gitlab

- Allows users to view profile and offers, check service qualification, check product catalogue and inventory, extended aisle and omni ordering, wireless configuration and quotes and in store appointments all under one solution.
- worked with task runners like gulp, webpack bundler, Babel and npm package manager.
- Backend is NodeJs which allows application to integrate with other products through API calls.
- Product integrated with Retail Ordering Tool, Point of Sale, SAP Hybris, Canada Post(Address Validation).
- Worked on tools like Confluence, Jira and Figma.

- Platform can be used by corporate store/dealer all brands and customer direct sales.
- Built responsive pages using React and Material UI to provide seamless user experiences across devices.
- Worked on making pages compliant with Web Content Accessibility Guidelines.
- Used Gitlab CI/CD for cloud deployment.
- Worked with Docker(DevOps) to create Docker Images and run container to set up testing environment.
- Worked with large dataset state management using Redux.
- Extensively worked with React Hooks(custom and built-in), React Hook Form, MillionJs(optimization), React window to render large mobility product lists.

Front-End Developer
Deloitte Canada | May 2021 – Apr 2023
InsurCloud Insurance

Technologies used:
React 17, Akita(State management), NodeJs, MongoDB, Jest, Playwright, HTML5, Material-UI, RESTful API, JSON, GULP, Webpack, Babel, NPM
Software:
VS Code, SourceTree, ServiceNow, Figma, MongoDB, Bitbucket, Jenkins

- Developed a user-friendly insurance portal using React, enabling end users to purchase, renew, and file claims for insurance policies seamlessly.
- worked with task runners like gulp, webpack bundler, Babel and npm package manager.
- Backend is NodeJs which allows application to integrate with other products through API calls.
- Product integrated with Guidewire(Policy Centre and Billing Centre), Moneris(Payment Service), Google(Geocoding), Canada Post(Address Validation) and Sitecore(Content Management System).
- Worked on tools like Confluence, Jira, Figma and ServiceNow.
- Platform allows user to quote and bind policy for Residential and New Business.
- Platform allows agents to service an existing policy.
- Worked with large dataset state management using Akita.
- Used Jenkins CI/CD for cloud deployment.
- Worked with Docker(DevOps) to create Docker Images and run container to set up testing environment.
- Built responsive pages using React and Material UI to provide seamless user experiences across devices.
- Worked on making pages compliant with Web Content Accessibility Guidelines.

Front-End Developer
TM7 Technologies, Canada | Aug 2019 – May 2021
Compliance Star

Technologies used:
React, Redux, TypeScript, Jasmine, Protractor, HTML5, JSS, Material-UI, RESTful API, JSON, GULP, Webpack, Babel, NPM
Software:
Visual Studio, JIRA, TFS

- Developed on-demand compliance software platforms to streamline regulatory reporting and oversight.
- Integrated React frontend applications with RESTful backend services, deployed on AWS and Google Cloud Platform (GCP), ensuring scalable and reliable full-stack solutions.
- Utilized tools such as Notion, Pivotal Tracker, Slack, and Confluence to manage agile workflows and team collaboration.
- Implemented build and automation workflows using Gulp, Webpack, Babel, and npm.
- Built features supporting risk monitoring, internal sign-off workflows, and compliance management.
- Enabled document upload workflows for Approved Persons to meet due diligence obligations.
- Integrated Firebase SSO and developed reusable web components for secure authentication validation.
- Built responsive UI modules for a web-based purchasing and service provisioning platform leveraging Material UI.
- Managed large-scale, real-time data with Redux for efficient state management. Developed and maintained dynamic forms to collect input from senior managers.
- Built tools for generating custom Excel reports from UI data to support audit and log management.
- Maintained full audit trails of communications to support regulatory and legal compliance.
- Ensured front-end accessibility by adhering to Web Content Accessibility Guidelines (WCAG) standards.

Alignify

- Makes it easy for people to virtually line up at their favourite stores and keep out of physical lines where possible.
- This new tool is designed to help stores manage their entrance line-ups and does not supersede the instructions from their staff manning the store's entrance.

Senior Software Developer
Fiserv Inc. | Feb 2016 – May 2019
Engage

Technologies used:
React, Redux, TypeScript, Jasmine, Protractor, HTML5, SCSS, KendoUI, XML, RESTful API, JSON, GULP, Webpack, Babel, NPM, AG Grid
Software:
Visual Studio, JIRA, TFS

- Allows bankers to view and modify customer and account information.
- Engage is a versatile front-end solution built with React that can seamlessly integrate and communicate with any Fiserv core system.
- Its UI is completely dynamic and changes according to database.
- worked with task runners like gulp, webpack bundler, Babel and npm package manager.
- Allows admin users to control access rights for different bankers.
- Worked with RESTful APIs to communicate with backend services, created custom nested JSON to incorporate these services which are written in C#.
- Worked with large dataset state management using Redux.
- Worked Node.JS to create proof of concepts to demo product owners.
- Developed responsive and interactive data grids with AG Grid and React, supporting efficient handling of large datasets with features like sorting, filtering, and pagination.
- Created chat bot to help customers with FAQ's.

Web Developer
Synechron Technologies | Feb 2014 – Jan 2016
Retirement Solutions

Technologies used:
React, Jasmine, HTML5, CSS, JSON, GULP, Webpack, Babel, NPM, JQuery, HTML5, CSS3, Material-UI, Bootstrap, RESTful API

Software:
Sublime Text, JIRA, Adobe Photoshop

- This project targeted to provide game design technique to retirement content material.
- This application allows user to live through a virtual life in which he has to make real life financial decisions and after completion virtual life user's retirement amount is calculated.
- This application includes React components such as leaderboard, profile, avatar, resource center, and others.

- Developed reusable, modular React components styled with Bootstrap classes, improving development speed and UI consistency across the application.

Education

Bachelor of Technology in Computer Engineering
Bharati Vidyapeeth Deemed University | 2006 – 2012
Canadian equivalency: Bachelor's degree (4 years)

Certifications & Methodologies

- Agile (Scrum),
- SPEED methodology
- Accessibility (WCAG 2.1 and AODA)
- SEO Best Practices

Tools & Environments

VS Code, Visual Studio, Android Studio, Tizen Studio, SourceTree, GitLab, Bitbucket, Postman, Jenkins, ServiceNow

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Interests

Photography, Travel, New Technologies, UI/UX Trends

Note: Available for remote, hybrid and onsite roles.