

Prayag Kuniyil

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Profile

Senior Front-End Engineer with 9 years of experience building scalable, high-performance web applications using React, TypeScript and Next.js. Strong expertise in Next.js, micro-frontends, server-side rendering, frontend performance optimisation, reusable component systems and CMS-driven architectures using Adobe Experience Manager. Experienced in enterprise applications, API integration, accessibility, observability and technical leadership.

ACS assessed as suitable under ANZSCO 261313 (Software Engineer).

Skills

React (React.js), Next.js, Remix, TypeScript, JavaScript, Redux, Zustand, TanStack Query, Tailwind CSS, CSS Modules, Jest, React Testing Library, Vite, Webpack, Babel, Storybook, Node.js, Express.js, Micro-frontend Architecture

Experience

Senior Front-End Engineer at Ford, Bengaluru, India

August 2025 - August 2026

- Built customer-facing experience pages on ford.com/experiences using Next.js within a micro-frontend (MFE) architecture.
- Introduced non-blocking rendering using Next.js RSC, Suspense and streaming, allowing static content to render immediately while API-dependent components loaded progressively, significantly improving page performance.
- Developed reusable React components integrated with Adobe Experience Manager (AEM) for content-driven pages.
- Redesigned and implemented booking flows for experience events, integrating existing backend APIs from legacy systems.
- Integrated payment flow using FordPay (Stripe-backed) for end-to-end booking functionality.
- Improved SEO and page delivery using SSR, code splitting and optimised data fetching in Next.js.
- Leveraged Dynatrace RUM and distributed tracing to analyse user sessions and frontend performance metrics, supporting investigation and optimisation of production performance issues.

Tech stack: Next.js, React, TypeScript, AEM (Adobe Experience Manager), Tailwind CSS, GCP, REST API, Jest, React Testing Library

Senior Front-End Engineer at Harman Connected Services, Bengaluru, India

November 2022 - August 2025

- Spearheaded the development of API analytics dashboard with trend charts and filters for date range and key selection, reducing rate-limit-related support tickets by 30%.
- Built a dashboard for managing utility usage and costs, helping enterprises track consumption trends and meet sustainability targets.
- Delivered a solution gallery in Next.js within 15 days, enabling efficient server-side rendering and improving initial load performance.
- Mentored and led a team of 3, enforcing best practices, conducting code reviews, and maintaining technical docs.
- Implemented a real-time chatbot interface that retrieved AI-generated answers from product reviews.
- Integrated Datadog RUM, Synthetic Monitoring, and Log Management to track frontend performance, API availability, and production errors.

Tech stack: React, TypeScript, Next.js, Tailwind CSS, Highcharts, Jest, React Testing Library, Storybook

Senior Software Engineer at Quest Global, Trivandrum, India

February 2021 - November 2022

- Reduced API response time by 70% by offloading heavy MongoDB transformations to the front end in collaboration with backend teams, boosting overall performance.
- Designed and implemented 3 data-rich visualizations for semiconductor test results using D3.js and Plotly.js.
- Contributed to sprint planning and task estimation for front-end tasks, ensuring smoother sprints.
- Created interactive chart controls for wafer (chip) test data to support analysis and early defect detection.
- Set up Docker Compose to orchestrate front-end, backend, and database services, and integrated with GitLab CI/CD for automated development, testing, and deployment.

Tech stack: React, MobX, D3.js, Plotly.js, Material UI, Jest, React Testing Library

Blockchain Developer at Cybrosys Technologies, Calicut, India

August 2017 - February 2021

- Led a 3-member blockchain team, ensuring code quality, conducting client discussions, and collaborating across teams to deliver dApp solutions.
- Integrated MetaMask and Web3.js into Ethereum dApps for 10+ clients, enabling secure wallet connectivity and blockchain transactions.
- Built an internal desktop tool with Electron and MERN stack to streamline task tracking and visibility for a 40-member team during COVID lockdown.
- Created an EOS blockchain-based document verification system with Web3.js and React, enabling secure verification.

Tech stack: React.js, Node.js, MongoDB, Express.js, Solidity, Web3.js, Electron

Education

Bachelor of Technology (Computer Science and Engineering)

MG University, Kerala, India

Assessed by ACS as comparable to an AQF Bachelor Degree (Major in Information and Communication Technology)