

INDIRAMOCHAN PRAKASAM

Principal Frontend Engineer

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github.com/pimohan?tab=repositories

PROFESSIONAL SUMMARY

Frontend Platform Engineer and UI Architect with deep expertise in React ecosystems, micro-frontend architecture, Nx Monorepo platforms, and large-scale UI modernization. Proven track record of delivering measurable platform impact, achieving 73% faster application startup, 40% reduced build times, 40% lower trading data latency, and 30% increased engineering productivity. Experienced in developing reusable platform capabilities, configuration-driven frameworks, design systems, and scalable high-performance architectures. Demonstrated technical leadership in architecture ownership, platform governance, and AI-augmented engineering within OTT streaming, fintech, capital markets, enterprise SaaS, banking, and telecom sectors. Targeting roles such as Staff Frontend Engineer, Principal UI Engineer, Frontend Architect, and React Platform Lead.

ARCHITECTURE SPECIALIZATIONS

Frontend Platform Engineering | Micro-Frontend Architecture | Nx Monorepo Platforms | Module Federation | Design Systems | Developer Experience (DX) | Performance Engineering | Build Infrastructure | Technical Strategy | Platform Governance | AI-Augmented Engineering | Architecture Decision Records (ADR) | Technical Mentorship

CERTIFICATION

Gen AI Architect Program — Social Eagle (In Progress) May 2026 - Present

Azure Gen AI & Agentic AI Engineer Certification — Scholarhat (In Progress) May 2026 - Present

TECHNICAL SKILLS

React & Frontend Platform

React | Next.js (SSR/SSG/ISR/Streaming) | TypeScript | JavaScript ES6+ | Redux Toolkit | React Query | Hooks Architecture | Component-Driven Development

Architecture & Platform Engineering

Micro-Frontend Architecture | Module Federation | Nx Monorepo | Design Systems | Config-Driven UI Frameworks | Frontend Platform Governance | Reusable Component Libraries | ADR Authoring

Performance & Build Tooling

Webpack 5 | RSPack | Vite | Code Splitting | Lazy Loading | CDN Optimization | Web Workers | Virtualization | Bundle Optimization | Core Web Vitals

UI, Visualization & Testing

Material UI | Ant Design | Tailwind CSS | Bootstrap | Sass | AG Grid | AG Charts | Highcharts | Chart.js | Jest | React Testing Library | TDD | Accessibility (WCAG)

Cloud, Integration & Tooling

Node.js | Azure | Azure DevOps | REST APIs | gRPC Streaming | WebSockets | SQL Server | MongoDB | Bitbucket | CI/CD

AI-Assisted Engineering

GitHub Copilot | Claude | ChatGPT | Prompt Engineering | AI-Augmented Code Generation | AI-Assisted Debugging

WORK EXPERIENCE

Primesoft — Principal Frontend Engineer (Principal Consultant) Nov 2025 - Apr 2026

- Architected scalable frontend platform for Quickplay OTT application supporting 1.1M+ weekly active users.
- Reduced application startup time from 18s to <5s using code splitting, CDN optimization, and lazy loading.
- Developed configuration-driven UI framework enabling dynamic screen rendering, accelerating feature delivery by ~40%.
- Implemented real-time logging and diagnostics system for Tizen/webOS smart TV runtime monitoring.
- Established reusable architecture patterns and coding standards — mentoring engineers across squads on platform best practices and improving overall code quality.
- Accelerated engineering productivity by ~30% using AI-assisted development workflows.

Photon Interactive — Frontend Architect (Architect) Mar 2025 - Aug 2025

- Delivered Nx Monorepo + RSPack micro-frontend platform for JPMC corporate banking supporting 10K+ enterprise users.
- Reduced build times by ~40% through optimized module federation and shared dependency management.
- Developed reusable configuration-driven Grid and Form Builder powering 50+ payment, reporting, and workflow modules.
- Established frontend platform governance, architecture standards, and coding guidelines across squads.
- Enabled scalable UI architecture supporting payments, reporting, and workflow modules across enterprise teams.
- Accelerated engineering productivity by ~30% using AI-assisted development workflows.

Platform R&D & Product Innovation — Senior Frontend Platform Consultant

Jan 2024 - Feb 2025

- Developed an AI-powered learning platform using React and Next.js, featuring automated quiz generation and dynamic content workflows to enhance user engagement.
- Published a reusable React component library as private NPM packages, resulting in a 35% improvement in application performance and maintainability.
- Delivered a real-time eCommerce prototype integrating Azure DevOps CI/CD pipelines and secure payment workflows, accelerating deployment speed by 40%.

Tech stack: React, Next.js, Node.js, TypeScript, Azure DevOps, NPM, REST APIs.

AX2 Technologies — Senior Lead Frontend Engineer

Aug 2021 - Nov 2023

- Architected high-performance real-time trading UI supporting 500+ concurrent active sessions with real-time data demands.
- Reduced data latency by ~40% using gRPC streaming and Web Worker-based parallel processing pipelines.
- Engineered virtualized rendering for 100K+ row datasets enabling real-time risk monitoring and strategy visualization.
- Developed reusable React component library standardizing UI across 8+ trading modules.
- Optimized rendering performance for large datasets using virtualization and efficient state management.

Capita PTE (Singapore) — Senior Frontend Engineer

May 2019 - Feb 2021

- Architected enterprise HR platform with no-code form builder and configurable workflow automation — supporting onboarding and offboarding for 20K+ employees and reducing configuration time by ~30%.
- Implemented dynamic form rendering, process orchestration, and role-based access control across the HR platform workflow engine.

PREVIOUS EXPERIENCE

2004 - 2018

Fabricnet | Experis (US) | Hewlett Packard Enterprise | Highland Marketing | Wipro Technologies

- Delivered enterprise frontend solutions for Fortune 500 clients — Dell, Microsoft, Verizon (Experis) | American Airlines, HNFS 3M+ US military (HPE) | Citibank UK FX trading platform (Highland) | Capital One loan origination (Wipro) — across fintech, banking, aviation, healthcare, and telecom domains.

KEY PROJECTS

TVNZ Streaming Platform — Quickplay OTT

Apr 2026

- **Tech stack:** React, Next.js, Webpack 5, CDN, Tizen/webOS, TypeScript, Azure DevOps
- **Outcome:** Reduced startup time from 18s to <5s supporting 1.1M+ weekly active users.

Graphite UI — JPMC Corporate Banking Platform

Aug 2025

- **Tech stack:** Nx Monorepo, RSPack, Module Federation, React, TypeScript, Material UI (MUI), REST APIs
- **Outcome:** Reduced build times by ~40% powering 50+ enterprise workflows for 10K+ users.

Sigma Viewer Real-Time Trading Platform — AX2

Nov 2023

- **Tech stack:** React, gRPC, Web Workers, Ant Design, Highcharts, TypeScript, WebSockets, MongoDB, SQL Server
- **Outcome:** Reduced data latency by ~40% supporting 500+ concurrent real-time trading sessions.

EDUCATION

MCA | Master of Computer Application

2002

Bharathidasan University, Trichy