

Bhargav Gandhi

LEAD FRONTEND ENGINEER | React · TypeScript · Frontend Architecture · Generative UI

New York, NY | (973) 330-7061 | bhargavbgandhi@gmail.com | bhargavgandhi.com | linkedin.com/in/bhargavgandhi | github.com/bhargavgandhi

SUMMARY

Lead Frontend Engineer with 10+ years shipping React and TypeScript products to consumers, business users and investors at JPMorganChase, Warner Bros. Discovery and Virtu Financial. Owns frontend architecture for generative AI products at JPMorganChase, built core UI for the Discovery+ launch, and works in Node.js and GraphQL.

SKILLS

Frontend & architecture: JavaScript, TypeScript, HTML5, CSS/Sass, React, Next.js, server-side rendering (SSR), Tailwind, Redux Toolkit, Redux Saga, Zustand, TanStack Query (React Query), functional programming (fp-ts), data grids and charts (AG Grid, AMCharts), micro-frontend architecture (NX, Vite), design systems (Storybook, MUI, atomic design), Electron, React Native

Generative AI interfaces: generative UI, LLM API integration, streaming chat and agent interfaces, retrieval-augmented generation (RAG), citation and chain-of-thought rendering, Claude API, Model Context Protocol (MCP) servers

Server-side & data: Node.js/Express, REST APIs, auth and session layers, GraphQL/Apollo (federation, schema stitching, codegen), SQL (PostgreSQL, SQLite), MongoDB, Drizzle, Prisma, OpenSearch, Server-Sent Events (SSE), WebSockets

Quality, performance & cloud: Jest, Vitest, Cypress, Playwright, Core Web Vitals, Lighthouse, React Profiler, bundle analysis, accessibility (a11y), Web Content Accessibility Guidelines (WCAG) 2.1, observability (Splunk, New Relic, Dynatrace), Amazon Web Services (AWS — S3, CDK, AppSync, Amplify), Docker, CI/CD, npm publishing, Pendo, Google Analytics, Cursor, Claude Code, GitHub Copilot

EXPERIENCE

JPMorganChase

Aug 2022 – Present · New York, NY

Lead Frontend Engineer, AI Products

Oct 2024 – Present

- Own frontend architecture for internal AI products used by 500+ portfolio managers and investors, who run 1,000+ chats a week with average session time up 80% to seven minutes.
- Launched a multi-agent chat routing retrieval-backed answers through an orchestrator, plus an agent builder non-engineers share across teams and a scheduler running 200+ saved prompts a week.
- Built the generative UI layer that renders streaming LLM responses over Server-Sent Events as Markdown, code, tables, charts, PDF attachments and citations, with reconnection on dropped streams.
- Cut time to first rendered chunk from six seconds to two, profiling the stream and render path with React Profiler and Core Web Vitals.
- Architected the Electron micro-frontend shell and its independently deployed apps, the platform that 7+ engineers across two teams now build on.
- Wrote the architecture docs and led the design reviews for the shell and micro apps, adopted by five squads.
- Own test, observability and release strategy for the shell and every micro app, and lead a manifest-driven loader that replaced iframes so navigation across child apps stays seamless.
- Designed the React component library behind the AI products, 42 shared components plus 20 in micro apps, and a token re-authentication hook keeping four apps signed in across domains.
- Mentor four junior and mid-level engineers through 1:1s and code review of AI-generated code, two of them promoted, and interview and hire frontend engineers.

Senior Software Engineer, Capital Connect

Aug 2022 – Oct 2024

- Led the networking flow that connects companies with investors end to end, lifting connections made 10% and cutting support tickets, plus a draft view for comparing profile changes before approval.
- Lifted onboarding completion ~40% with guided onboarding in React Joyride and Intro.js, built alongside product and design, letting users finish setup without calling support.
- Cut search and discovery query load time from 14 seconds to two through GraphQL payload reduction, caching and federated query optimization, and wrote the OpenSearch queries behind it.
- Cut duplicate UI code ~35% with a reusable React component library built in Storybook, MUI and MUI DataGrid and adopted by two product squads.
- Evaluated and chose the state management library, implemented it at app and feature level, and documented the patterns in Confluence, adopted by six teams.

Warner Bros. Discovery | Senior Frontend Engineer

Nov 2019 – Jul 2022 · New York, NY

- Built core UI for the Discovery+ launch across web and connected TV, on a platform that grew from zero to 20M+ subscribers.
- Architected the Xbox and Samsung TV web app from scratch, including an atomic design UI library and a component mapper that renders show, season and hero pages from CMS-driven config.
- Cut load time 30% on low-bandwidth devices through Lighthouse profiling and bundle analysis.
- Supported Discovery+ on call after launch, turning user reviews and production reports into bug fixes and feature requests with product managers.
- Shipped and maintained Cosmos design system components and implemented accessibility (a11y) to WCAG 2.1 across both surfaces, lifting audit pass rates 30% with custom keyboard navigation for nested focusable elements.

Virtu Financial (ITG) | Frontend Engineer

Apr 2018 – Nov 2019 · New York, NY

- Built a greenfield real-time analytics workspace for institutional clients in React and GraphQL, with configurable layouts fed by live data APIs, launched to five major clients in one year.
- Designed a Node.js shell-level authentication and entitlements layer with httpOnly cookie sessions, token refresh and admin impersonation, meeting compliance requirements.
- Implemented GraphQL schema stitching and custom resolvers in Node.js to combine three backend schemas behind one query layer.
- Architected a micro-frontend shell hosting four apps including Admin and Analytics, with a Redux Saga event bus and WebSockets moving data between the shell and apps.

Real Estate Arts Inc. | Frontend Developer

May 2016 – Apr 2018 · New York, NY

- Delivered 15+ interactive real estate microsites in React and WordPress, supporting 25K+ monthly visitors.
- Raised average session duration ~20% and lowered bounce rate with geolocation maps built on Google Maps, Leaflet and Mapbox.

Publicis Beehive | Web Developer, promoted to Digital Brand Manager

Dec 2011 – Mar 2016 · Mumbai, India

- Promoted to Digital Brand Manager, leading web and SEO delivery for 20+ brand clients across 20+ sites and apps, and building custom CMS platforms in PHP and WordPress.

PROJECTS & OPEN SOURCE

- agentic-workflows (open source, MIT, published on npm as agents-skills) — One-command CLI that installs a phase-gated AI development lifecycle into Cursor, Claude Code, Copilot and Antigravity, with 12 core skills and token-budget enforcement. github.com/bhargavgandhi/agentic-workflows
- AI Dev Studio (private, in progress) — Local AI coding agent that runs plan, build, test, review and commit in isolated Git worktrees, persisting every session so runs stay recoverable and human-gated.
- Sampark (volunteer) — Contact, event and content publishing platform for 1,000+ users, built end to end: progressive web apps (PWA) in a Yarn workspaces micro-frontend monorepo, a React Native app for iOS and Android, and an NX-managed Node.js and GraphQL backend on MongoDB.

EDUCATION

M.S., Information Technology & Computer Application — Saurashtra University, India

B.S., Computer Application — Veer Narmad South Gujarat University, India