

Tanmay Mathur

Senior Frontend Engineer · React · TypeScript · AI-Native Products

Missouri City, TX 77459 | +1-346-599-4980 | tanmay.mathur97@gmail.com | linkedin.com/in/tanmaymathur97 | github.com/tanmaymdev

PROFESSIONAL SUMMARY

Senior Frontend Engineer with 5+ years building production-grade React and TypeScript applications at scale. Experienced shipping AI-native product features — including LLM-powered workflows, streaming interfaces, and agentic tooling — with hands-on use of Anthropic (Claude) and Google Gemini APIs. Strong product and UX judgment for complex, information-dense tools used by expert users. Proven track record of performance optimization (65% gains), observability integration, and leading frontend architecture across revenue-critical platforms.

EXPERIENCE

Senior Software Engineer

Feb 2023 – Present

BILL, Houston, TX

- Spearheaded front-end development for the Accountant Console using **React and TypeScript**, driving high-impact feature delivery to a product contributing **40%+** of BILL's revenue.
- Integrated **AI-powered Smart Insights** into the reporting platform — surfacing actionable, LLM-generated recommendations directly in accounting dashboards, improving decision velocity for firm users.
- Built a Highcharts-powered interactive reporting system delivering real-time data visualization, driving a **40% increase in report engagement** among firm clients; engineered large-dataset export pipelines handling tens of thousands of rows with async processing and robust error/retry states.
- Improved page performance of the most visited pages by **65%** via advanced Webpack optimization — profiling render bottlenecks, code-splitting, and lazy-loading to enhance scalability and time-to-interactive.
- Integrated **Datadog and FullStory** to expand monitoring coverage by **70%** — establishing observability standards for frontend error tracking, session replay, and UX debugging across the platform.
- Integrated the Add Credit Card flow using **VGS** for PCI-compliant subscription billing — supporting BILL's **\$272M+ annual subscription revenue stream (FY25)** with a secure, enterprise-grade payment onboarding experience.
- Served as **Scrum Master** for the front-end team; mentored engineers, set frontend architecture standards, and drove cross-functional collaboration across product, design, and backend teams.

Software Engineer Intern

May 2022 – Aug 2022

BILL, Houston, TX

- Integrated Datadog Cloud Monitoring with AngularJS-based front-end, enhancing logging and diagnostics for the Accountant Channel.
- Built an interactive dashboard enabling teams to visualize user journeys and behavior patterns for data-driven UX improvements.

Developer

Jun 2019 – Jun 2021

Standard Chartered Global Business Services, Bengaluru, India

- Devised Groovy-ReactJS-based solution to integrate Reserve Bank of India's NDS Call System with Razor, enabling an increase of **\$10 million** in weekly transaction value.
- Developed Java-based standalone application to automate trade cancellation messages during migration, reducing regulatory reporting risk by **85%**.

SIDE PROJECTS

Vidhikosh <https://vidhikosh.app/>

AI · React · Gemini API

- AI-powered app built with React and Claude Code that uses the **Google Gemini API** to extract structured recipes from any social media or blog URL — delivering distraction-free cooking guides, AI-assisted nutrition calculations, and personalized meal planning. Demonstrates end-to-end LLM API integration, structured output parsing, and streaming response rendering.

Invitewaale <https://invitewaale.com/>

SaaS · React · TypeScript

- Full-stack event management platform built with React and TypeScript — enabling digital invitation creation, real-time RSVP collection, and guest list management. Architected for reliability and scale with async workflows and a reusable component system.

EDUCATION

Master of Computer Science

Rice University, Houston TX · GPA: 3.9 / 4.0

Dec 2022

Bachelor of Technology — Electrical & Electronics Engineering

VIT University, India · GPA: 9.36 / 10.0

May 2019

SKILLS

Languages & Frameworks: React, TypeScript, JavaScript, Next.js, Python, Java, HTML5, CSS3, Angular, Redux, Node.js

AI & LLM: Anthropic Claude API, Google Gemini API, LLM integration, streaming responses, structured output, Claude Code, GitHub Copilot

Tools & Platforms: Datadog, FullStory, Sentry, Webpack, SQL, PostgreSQL, MongoDB, VGS

Other: Agile, Scrum, Micro Frontends, Observability, Component Systems, Performance Optimization, Unix