Abhishek Thorat

Staff Frontend Engineer at Pypestream

Frontend engineer who turns product ideas into dependable web applications. Over 11 years, 10 of them on the web, I've grown from building features to designing frontend architecture in TypeScript, React and web components, working closely with product, design and backend teams to ship it. At Pypestream I lead the frontend team as a hands-on staff engineer, building a chat platform that serves 2 million sessions a month and a studio for designing AI agents.

Experience	11 years, 10 of them on the web
Focus	Frontend architecture, web components, React, TypeScript, accessibility
Also works with	Node.js, GraphQL, PostgreSQL, CI/CD and deploys
AI	AI-assisted engineering with Claude Code, custom skills and reviewer agents, and LLM-powered tooling
Based in	Ahilyanagar, India. Working remotely since 2020

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Work

Pypestream

Sep 2020 to Present, Remote

Conversational AI platform for enterprise customer experience.

2025 Staff Frontend Engineer
2022 Technical Lead
2021 Senior Frontend Developer
2020 Frontend Developer

- Set technical direction and own architecture decisions across the frontend, from the customer-facing chat widget to the AI-agent studio.
- Partner with product and design from feasibility to release, and lead the resolution of production issues for enterprise customers.
- Mentor engineers through design and code review; turned team knowledge into written standards and an AI-assisted review workflow the whole team uses.
- Added typecheck and test gates to CI, and moved the team to contract-first, generated API types instead of hand-written ones.

Pype

Pypestream's new chat widget, which banks, insurers and consumer brands embed on their websites. It serves about 2 million sessions a month. I'm its technical lead.

- Designed the architecture on Lit web components and XState, so the same code runs as a floating widget or a full page instead of two products to maintain.
- Built the embed SDK customers add to their sites, with a strict public API so internal changes don't break customer pages.
- Created a platform for customers' CX teams to build their own chat components, with a versioned contract, JSON Schema config and a CLI, so they ship custom experiences without waiting on our releases.
- Brought it to parity with the legacy widget it replaces, including rich messages, surveys, PII masking, video, and 48 locales with right-to-left support.
- Led WCAG 2.x AA accessibility work: focus management, screen-reader announcements and a keyboard model for every component.
- Made it resilient with a three-tier error boundary and reliable reconnect and session restore, so a network blip doesn't lose a conversation.
- Built a live preview layer for the widget inside our internal builder apps, so customers see styling and content changes as they make them.

AI-agent studio

A platform where teams build AI agents from prompts, voice first and text next. Each agent is a YAML-based specification with its own visual canvas, and can call LLM services as it runs.

- Own the frontend end to end: the prompt-driven agent builder, a visual canvas over each agent's specification, editors, and voice and chat test flows.

> Worked across services on multi-tenant correctness, debugging issues down to the data layer.

Tech9

Sep 2019 to Sep 2020, Pune

Software Engineer

Set up the initial stack and engineering practices for new applications, and worked with UX and product to shape frontend solutions in React on a Go backend.

GreenOrbit (formerly Effective Digital)

Feb 2018 to Sep 2019, Pune

2019 Senior Frontend Developer 2018 Frontend Developer

Analyzed requirements, proposed frontend solutions and built them in React for GreenOrbit, a digital workplace product.

Reviewed the codebase to keep design and implementation consistent and improve usability.

Tudip Technologies

Sep 2015 to Feb 2018, Pune

2016 JavaScript Developer 2015 iOS Developer

Worked directly with clients on requirements and deadlines, building React, Meteor and TypeScript applications with unit tests.

Ran internal training sessions on JavaScript and React for other developers.

Contributed to Form.io's open-source React renderer, the library that renders Form.io forms in React apps.

Started with native iOS apps in Swift: responsive portrait and landscape layouts, social sign-up, and TAGKeyboard, an open-source pod that fixes the keyboard covering text fields.

Building

Tathastu Pre-launch

A digital legacy service. People write messages that reach the people they choose only after a human-verified life-status check. Messages are encrypted in the browser, so the server never sees them.

Nx monorepo, Next.js, Hasura GraphQL, PostgreSQL with row-level security, Web Crypto (PBKDF2, AES-GCM, RSA-OAEP), Firebase Auth, React Native

Side projects

Stylewright: A browser extension for writing per-site CSS overrides. Fully local, and nothing is applied until you ask.

Screen Time Tracker: A macOS menu-bar app that tracks screen time, pausing on lock and surviving restarts. Uses about 30 MB when idle, with hand-drawn SVG reports.

Word Improvisation: A random-word improv game for remote teams to play on video calls.

Form.io contributions: Contributions to Form.io's open-source React renderer: tests for most of its form components, a data grid fix and inline layout support.

GitButler contributions: A few small fixes to GitButler, an open-source Git client I was excited to contribute to.

Skills

Frontend	TypeScript, React, Lit and web components, XState, MobX, Next.js, Vite, design tokens
APIs and data	GraphQL (Hasura, urql, codegen), REST, WebSockets, JSON Schema, PostgreSQL
Backend	Node.js, plus Rust with Tauri for desktop apps
AI	Claude Code, agent and skill design, prompt design, Anthropic SDK, AI-assisted code review
Quality	Vitest, Playwright, Cypress, Percy, SonarQube, WCAG 2.x AA
Platform	Nx, Lerna and Yarn workspaces, GitHub Actions, Vercel, Argo CD and Kubernetes
Earlier	Swift and iOS, React Native

Education

Bachelor of Engineering, Computer Engineering

Sinhgad Institute of Technology, Savitribai Phule Pune University, 2011 to 2015