Charles Assunção

Staff Frontend Engineer · Design systems, web performance, AI product features

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SUMMARY

Staff frontend engineer with 12 years shipping web products, from design systems at Microsoft scale (Fluent UI in Microsoft Teams) to web performance (60% smaller bundles, 4x faster loads) and AI features in production healthcare software. Works across the stack in React, TypeScript, GraphQL, Django and Elixir, with a track record of setting frontend and platform direction across multiple teams.

SKILLS

Frontend: TypeScript, JavaScript, React, Next.js, Angular, Apollo GraphQL, design systems, accessibility (WCAG), web performance

Backend: Python, Django, Strawberry GraphQL, Celery, Elixir, Node.js

AI and tooling: OpenAI / LLM product features, Playwright, Vite, Webpack, CI/CD, Datadog

EXPERIENCE

Staff Product Engineer · Moxie · Remote — Jun 2026 - Present

- Shipped AI clinical features end to end, an LLM-generated patient medical summary and self-service AI Scribe onboarding (OAuth to seat billing); 1,500+ practices now use these AI features.
- Originated Medical Alerts and intake answer highlighting, then owned clinical workflows from data model to E2E tests (charting shortcuts, signatures, consent history).
- Set platform direction: authored proposals on feature flag strategy and AI self-healing of flaky tests, adopted by all engineering teams; led legacy cleanup in the Hasura-to-Strawberry GraphQL migration and the response to a supply-chain CA compromise.

Staff Engineer · Appcues · Remote — Jun 2021 - Jun 2026

- Hired as Senior and promoted to Staff; tech lead of 5 engineers, setting frontend direction across 4 product teams.
- Drove the TypeScript migration of a product built by 3 teams and its move from Webpack to Vite, cutting bundle size 60% and making load time 4x faster.
- Built a CLI that gates every PR on accessibility and compliance checks before merge, used by every frontend engineer at the company, reducing accessibility regressions.
- Mentored 3 engineers (2 promoted) and interviewed 20+ candidates; contributed to the design system and the Elixir backend.

Software Engineer II · Microsoft · Prague, Czechia — Mar 2020 - Mar 2021

- Built 14 new Fluent UI components for Microsoft Teams and rewrote 30 existing ones as React function components.
- Led 2 design system migrations in Teams and wrote migration guides used by 15+ teams.
- Built reviewer tooling for accessibility PMs that surfaces issues in Teams PRs for sign-off, used by 100+ engineers and cutting PM review time by more than 50%.

Senior Software Engineer (AVP) · Credit Suisse · Warsaw, Poland — Apr 2018 - Mar 2020

- Built a slice-and-dice credit risk dashboard and report generator used by the bank's credit risk officers.
- Built an XVA pricing simulator for traders with an internationally distributed team, leading a squad of two.

Senior Front-End Developer · Toro Investimentos · Belo Horizonte, Brazil — Jan 2017 - Mar 2018

- Helped build an investment product from scratch, leading new features and onboarding new team members.

Software Developer · TecMidia Soluções · Belo Horizonte, Brazil — Apr 2014 - Jan 2017

- Led frontend for a new web product and built a cross-platform app with Ionic.

COMMUNITY

- **W3C Open UI:** contributor to the W3C Community Group specifying customizable built-in web controls (open-ui.org).
- **ngx-indexed-db:** creator and maintainer of the IndexedDB library for Angular since 2018, ~18k weekly npm downloads, 180+ GitHub stars, listed in awesome-angular.
- Writing on frontend engineering at dev.to/assuncaocharles.

EDUCATION

B.S. Information Systems, PUC Minas · Teaching Assistant, Algorithms and Data Structures (2014 - 2016) — 2013 - 2018

Languages: Portuguese (native), English (proficient)