JEROME D'MELLO

Senior Frontend Engineer | Full-Stack · React · Next.js · TypeScript · AI Applications

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PROFESSIONAL SUMMARY

Frontend engineer with 9+ years of professional experience, 7 of them in software engineering, building and leading large-scale web applications for global enterprise clients in telecommunications and banking, now building production React and Next.js products end to end. Led a 25-engineer offshore team through a legacy AngularJS to Angular 16 migration with micro frontend architecture, and delivered a BI reporting portal used by thousands of employees across a US bank, where self-initiated frontend work cut the client's reliance on external consultants which was acknowledged in written recommendations by two client Vice Presidents. Promoted twice in five years at Infosys. Currently working on full-stack Next.js with Payload CMS and PostgreSQL, including a bilingual English/German content platform, plus production AI tooling on the Anthropic Claude SDK with per-task model routing and hard token-cost caps. TypeScript-first, test-driven (80% unit coverage on the CPQ platform), experienced with CI/CD and distributed, cross-time-zone teams. Currently living in Germany.

TECHNICAL SKILLS

Frontend: React 19 (Server Components), Next.js 16 (App Router, SSR/SSG/ISR), Angular 2–16, AngularJS, Astro, TypeScript, JavaScript (ES6+), HTML5, CSS3, SASS, Tailwind CSS 4, NgRx, Micro Frontends, GSAP, three.js / WebGL, React Hook Form, Zod, next-intl (i18n), responsive design

Backend: Node.js, Express, REST APIs, PostgreSQL, SQLite, Prisma, Payload CMS 3 (headless CMS), Better Auth, server-sent events, transactional email (Resend), Python

AI & Automation: Anthropic Claude SDK and API, task-based model routing with token-cost budgeting and spend caps, LLM content pipelines, AI agent and workflow automation, prompt engineering, Firecrawl

Testing & Quality: Vitest, Playwright (end-to-end), Jasmine, Karma, unit and integration testing (80% coverage strategy), typecheck/lint/build gates, code reviews, ISTQB-certified testing fundamentals

Tools & Practices: Git, GitHub, GitLab CI/CD, Agile/Scrum, internationalization (i18n), SEO (structured data, sitemaps, Open Graph, JSON-LD), offshore team leadership, stakeholder management

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer — React, Next.js & AI Applications

Feb 2025 – Present

CrestWeb Solutions, Mumbai — contract, remote · client projects and own products

- **Bilingual (English/German) portfolio and content platform** on Next.js 16 (App Router, React 19 Server Components), Payload CMS 3 and PostgreSQL: next-intl locale routing, field-level localised content, draft/publish with on-demand revalidation, SEO through a dynamic sitemap, JSON-LD and generated Open Graph images, a Zod-validated contact form on transactional email, and a three.js particle-portrait hero with a non-WebGL fallback.
- **AI content studio** (Next.js, TypeScript) turning a company URL into a brand kit and ready-to-publish social posts: Anthropic Claude SDK with **per-task model routing (Haiku/Sonnet/Opus) and per-job token-cost accounting under a hard spend cap**, Firecrawl scraping, HTML-to-PNG rendering via Playwright, Zod-validated pipeline contracts, progress streamed over server-sent events, and a Vitest suite over the budget and pipeline paths.
- **Brand-compliant social template studio** for a governance, risk and compliance (GRC) client: editable HTML templates in Next.js 16 / React 19 with in-browser PNG export, letting a non-technical marketing team produce on-brand assets without a designer.
- **Marketing site for FYOR, a fintech client**: Astro and Tailwind CSS static build with GSAP and Lenis motion, shipping no client-side framework JavaScript; also delivered a written marketing and positioning audit.
- **Product-data engineering** for a healthcare and FMCG client: consolidated fragmented catalogues into a validated marketplace upload workbook (Python), replacing manual per-SKU entry.
- **Reference suite of seven end-to-end Next.js 16 applications** across healthcare, hospitality, retail and professional services on one shared stack: Prisma, Better Auth, payments and email behind swappable interfaces, Playwright end-to-end tests and a typecheck/lint/build gate.
- **Stack:** React 19, Next.js 16, TypeScript, Tailwind CSS 4, Payload CMS, PostgreSQL, Prisma, Astro, GSAP, three.js, Zod, Vitest, Playwright, Anthropic Claude SDK.

Technology Analyst (Technology Lead) — CPQ Platform Modernization Jun 2024 – Jan 2025

Infosys Limited, Pune · Client: Optus (Australian telecommunications operator)

- **Led a 25-engineer offshore team** migrating a large-scale B2B Configure-Price-Quote (CPQ) platform from legacy AngularJS to Angular 16 with a micro frontend architecture, improving maintainability and usability for the client.
- Designed and enforced the unit testing strategy (Jasmine/Karma), **raising test coverage to 80%**.
- Owned technical decisions, code reviews and delivery coordination with client stakeholders.

Technology Analyst (Technology Lead) — Customer Acquisition & Sales Portal Dec 2022 – May 2024

Infosys Limited, Pune · Client: US-based enterprise

- Led the technical side of a full website redesign and the build of a new customer acquisition and sales portal.
- Managed a distributed team of three (two offshore, one onshore) with daily cross-time-zone collaboration and direct client communication.

Senior System Engineer (Senior Developer) — BI Reporting Platform Oct 2021 – Dec 2022

Infosys Limited, Pune · Client: Truist Bank (US)

- Delivered a unified BI report portal **used by thousands of employees across the bank**, building custom portal pages on the MetricInsights platform.
- Gathered requirements directly from client stakeholders and acted as coordinator between onshore and offshore teams.
- Self-initiated frontend development reduced the client's reliance on external consultants, saving cost and turnaround time — **acknowledged in written recommendations by two client Vice Presidents**.

System Engineer — Internal Platforms Sep 2019 – Oct 2021

Infosys Limited · Training Division, Mysuru

- Built JavaScript-based internal tools: automated test case generation, attendance management, and a knowledge portal.

Intern — Software Development Jan 2019 – May 2019

Infosys Limited, Mysuru

- Python-based development training and project work prior to joining Infosys full time.

Senior Project Manager Feb 2017 – Dec 2018

HaiYeMaya Digital Marketing, Mumbai

- Owned client-facing project delivery and coordination across all active engagements, concurrent with postgraduate study (MCA).

EDUCATION

Master of Computer Applications (MCA) 2016 – 2019

Thakur Institute of Management Studies, Career Development and Research · Mumbai, India

Bachelor of Science (B.Sc.), Computer Science 2012 – 2016

Kishinchand Chellaram College · Mumbai, India

CERTIFICATIONS

- **Goethe-Zertifikat A1: Start Deutsch 1** — Goethe-Institut e.V., May 2026 · Credential ID 1525-ASA1-0002790822. B1 course in progress.
- **ISTQB Certified Tester, Foundation Level (CTFL)** — Indian Testing Board / ISTQB, February 2017 · Credential ID ITB-CTFL-0081570.
- Infosys Certified Business Intelligence Associate — Infosys, July 2023.
- Infosys Global Agile Certification — Infosys, February 2022.

LANGUAGES

German: A1 certified (Goethe-Institut), B1 course in progress.

English: Full professional proficiency (C2)

Hindi: Native proficiency (C2)

Marathi: Limited working proficiency