

Dirk Matthias Rudolf

Freelance TypeScript Full-Stack Engineer

Freelance since 2007

Technical Director, meta.morph Medien GmbH, 2011–2015

Diplom-Informatiker (FH)
Master of Science

Location	Berlin
LinkedIn	linkedin.com/in/dirk-matthias-rudolf
GitHub	github.com/drudolf
Languages	German (Native) English (Fluent)

Independent TypeScript full-stack engineering since 2007, focused on scalable web applications, API design, and database architecture. Integrating AI tooling and MCP into development processes, grounded in video and streaming development. Strong technical lead, working solo or within a team.

SKILLS

Web Development	Video & Streaming	Technical Project Management
TypeScript React Node.js / Fastify Prisma / PostgreSQL	Samsung (Tizen, Orsay) LG (webOS, NetCast) HbbTV Cross-Platform	AI Tooling / MCP Agile Methods (Scrum, Kanban) Test-Driven Development Continuous Integration

PROJECTS

2023–2026	Web Development — Full-Stack Built a modular full-stack tool suite for managing creatives, publishers, and targeting, covering database schema and API design through to SPA architecture. Implemented as a team with TypeScript, React, Node.js, Fastify, Prisma, and PostgreSQL. Live TV Application — Frontend Held full technical ownership of a live-TV application for Tizen and webOS, from architecture through delivery. Built with TypeScript and HLS.js.
2020–2023	Media Library — Full-Stack Extended and maintained a media platform across multiple streaming and Smart-TV platforms (HbbTV, Tizen, webOS, NetCast, Orsay, and others) within an agency team, owning device-specific debugging, platform updates, feature development, and release coordination. Media Library (Rebuild) — Full-Stack Rebuilt the entire stack in TypeScript, React, and Node.js, rolling out across HbbTV, Samsung (Tizen), LG (webOS), Panasonic, Philips, Sony, Foxxum, and Hisense. Delivered a single TypeScript/React codebase with manufacturer-specific adaptations for eight manufacturers, covering DASH live streams with timeshift, VOD, subtitles, and multi-track audio. Verified through testing on physical devices and cross-platform Jest regression tests.
2015–2020	Streaming Platform — Frontend Led the port of a live streaming application to Samsung (Orsay, Tizen) and LG (NetCast, webOS) using JavaScript, Backbone.js, and DASH/HLS. Streaming Platform (Rebuild) — Frontend Rebuilt as a TypeScript/React platform serving eight brands across five TV platforms (Tizen, webOS, Panasonic, set-top box, and others), built collaboratively. Delivered a shared TypeScript/React codebase for eight manufacturers, with 5-key navigation and focus management in React, performant DASH playback across all platforms, and unified handling of diverse client requirements.

OPEN SOURCE

prisma-pglite-bridge	Library for fast, reliable database testing with Prisma and PGlite Isolated Prisma database tests without Docker or an external database server. PGlite replaces PostgreSQL in-process, compatible with Vitest and Jest.
fastify-lor-zod	Type provider for the Fastify API framework with Zod schema validation End-to-end type-safe validation of requests and responses, with automatic API documentation (OpenAPI/Swagger) from a single shared schema definition. Rewritten in TypeScript with full Zod v4 support and improved OpenAPI export.