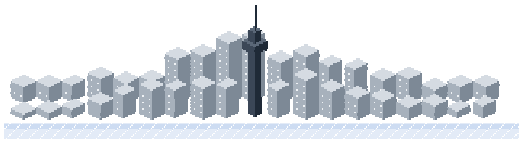
Grigory Frolov

SENIOR FULL-STACK ENGINEER —
REACT/TYPESCRIPT, PHP/SYMFONY & SQL



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Based overseas | Open to roles in New Zealand and Australia, remote or relocation | Employer-sponsored visa required for relocation

// PROFILE

Hands-on full-stack engineer with 20+ years building production web applications, and CTO of a development studio that delivered 40+ commercial web applications and workflow systems. Works across the stack: React and TypeScript on the frontend, PHP/Symfony and Node.js on the backend, MySQL/PostgreSQL data modelling, REST APIs and integrations, Docker on Linux servers. Has also built and led engineering teams: hired and interviewed developers, set up onboarding and a grading system, led key projects as Lead PM and trained project managers, and launched products from scratch. Works with AI coding agents daily under written specifications, tests and code review; recent work includes a real-time browser 3D review app tuned from 19.6 to 60 fps.

// PROFESSIONAL EXPERIENCE

CTO — NJ Soft (njsoft.dev) | Jan 2021–Present

- Lead a development team delivering 40+ commercial web applications and workflow systems for clients, from requirements, architecture and estimates through release and production support.
- Hands-on across the stack: React and TypeScript interfaces, PHP/Symfony backends and APIs, MySQL/PostgreSQL, integrations with business systems, Docker-based deployment on Linux.
- Hire and interview engineers, run onboarding and a grading system; lead key projects as Lead PM and train project managers.

CTO — Big Fish Digital Agency | Dec 2011–Jan 2021

- Led development of websites, web platforms and integrations for clients including Pilkington, Polaris, Petrolube and HAVAS Media; owned architecture, estimates and delivery quality.
- Built and led the development team; stayed hands-on in PHP, MySQL and JavaScript.

Head of Web & Digital Projects — S3 | Dec 2007–Dec 2011

- Delivered a trading platform integrated with 1C and a SharePoint portal for procurement, contracts and internal requests.

Earlier career — Web developer | Before 2007

- Built production web applications using PHP, MySQL and JavaScript.

// SELECTED INDEPENDENT ENGINEERING PROJECTS

StockPoint, EnergyDesk and ClearLedger are three of seven industry showcases I built on one shared platform: Symfony modular monolith, PostgreSQL (row-level security per demo session), React + TypeScript, Playwright end-to-end and axe accessibility tests, architecture decision records. Independently built, synthetic data, not client work.

StockPoint — Retail orders, stock and returns across locations | grigoryfrolov.com/work/industry/stockpoint

- Append-only stock ledger with a transactional balance gate: no overselling under concurrent checkout.
- Measured on a shared 4-vCPU host with 4 worker processes: 804 orders/s, p50 4.0 ms, p95 12.0 ms, no deadlocks.

EnergyDesk — Smart-meter data, tariffs, monthly billing and rebilling | grigoryfrolov.com/work/industry/energydesk

- Versioned meter readings with publication revisions and correction chains; bills reproducible to the cent.
- Laptop Docker benchmark: 20.4M readings (10,000 connections × one month) aggregated in 5.2 s, every interval counted exactly once.

Christchurch Site Viewer — Collaborative browser 3D site review for architecture | grigoryfrolov.com/work/christchurch-site-viewer

- Federated IFC building on real Christchurch LiDAR terrain; measurement, section planes, real-time collaboration (Yjs over WebSockets), AI renders.
- Performance work (Apple M3, Chrome): draw calls 7,811 → 23, orbit 19.6 → 60 fps, picking ~95× faster, first-view download 32 MB → 2.2 MB. React · TypeScript · three.js · Node.js.

ClearLedger — Month-end bank reconciliation and cash application | grigoryfrolov.com/work/industry/clearledger

- No double allocation, explainable matches, residuals and unapplied cash kept rather than forced, immutable close snapshots; uploaded statements are never sent to AI.

More work | grigoryfrolov.com/work

- Fleet Operations Replay (Auckland delivery-day replay, 60 fps with 500 vehicles), Mine Operations Viewer, four more industry showcases, Drums3D and mobile apps in the App Store and Google Play.

// RELEVANT ENGINEERING STRENGTHS

Frontend: React, TypeScript, JavaScript, HTML/CSS, React Native / Expo · Backend: PHP/Symfony, Node.js, REST APIs and integrations · Data: MySQL, PostgreSQL, SQL and relational data modelling · Infrastructure: Docker, Linux/Unix, CI, Cloudflare Workers · Real-time sync (Yjs, WebSockets) · Testing (Vitest) and code review · AI coding agents: specification-driven tasks and review of AI-generated code · Technical leadership: hiring, onboarding, grading, estimates, delivery

// ASSESSMENT AND EDUCATION

ACS positive skills assessment — ANZSCO 261211 Multimedia Specialist (18 Dec 2024) · Australian Diploma of Business (2025) · IELTS Academic 6.5 (2026)