

Pretoria, South Africa

Mark Steyn

Full-stack developer & BMS integrator

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Full-stack developer who also wires up real buildings. I design and ship product interfaces, real-time systems and local-first apps in TypeScript and React, backed by hands-on building-automation work on Siemens BMS platforms.

10,000+
BMS points commissioned

3,000+
npm downloads, Lilt Charts

11
products & client builds shipped

5+ yrs
on live building systems

Experience

2024 – Present
Products & client work

Independent software developer

- Built the practice-management app and public website for law firm Botha Partners Inc.
- Delivered a patient-management app for a physiotherapy practice and websites for ABT and Tagon.
- Design and ship my own products end to end, including an open-source npm library and a desktop video editor.

Jan 2021 – Present
Africa Building Technologies

Systems integrator (BMS engineer)

- Commissioned 10,000+ points across Siemens Desigo CC and FIN Framework.
- Led Standard Chartered's FCU network: designed it, then ran installation and integration to handover.
- Program and troubleshoot DDC and HVAC systems over TCP/IP and RS-485 (BACnet, Modbus).

Earlier: Logistics coordinator, Galactic Garments (2018 – 2020) · Floor manager, Interfit Gym (2018)

Skills

Code	TypeScript · JavaScript · Python · SQL
Frontend	React · Next.js · Tailwind · shadcn / Radix · GSAP · D3
Backend & data	Node.js · Express · FastAPI · SQLite · Supabase · Firebase · WebSockets
Desktop & tooling	Electron · Vite · Playwright · Vitest · Git
Building automation	Desigo CC · FIN Framework · BACnet · Modbus · KNX · DDC · RS-485 · HVAC

Certified

Desigo CC
Siemens · 2023

FIN Framework
J2 Innovations (Siemens) · 2021

Software & App Development (MCSD & MCSE)
CTU Training Solutions · 2019 – 2021

Education

Higher Certificate in Exercise Science
HFPA · 2016

Matric
Pretoria Boys High School · 2014

Languages

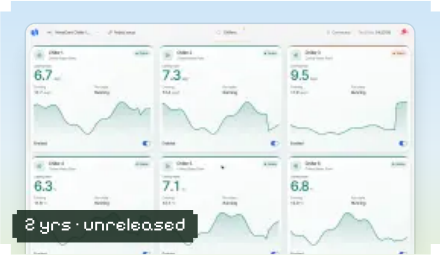
English, Afrikaans

Now

- Open to full-stack developer roles
- Building NovaCore toward its first release
- Maintaining Lilt Charts on npm

Selected work

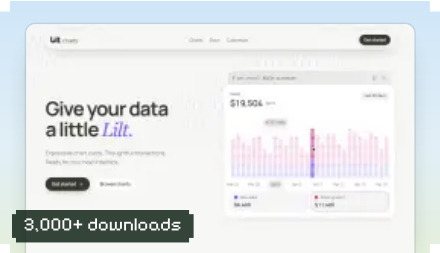
Live demos & case studies at marksteyn.dev



NovaCore

Building-automation platform: live graphics, alarms and schedules over BACnet, Modbus, KNX and MQTT.

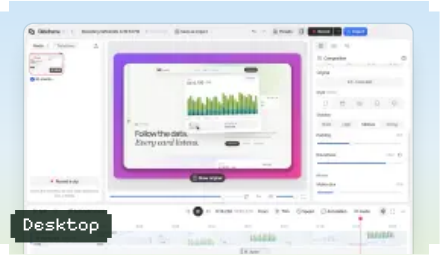
Node.js · React · SQLite



Lilt Charts

Open-source React chart cards with built-in linked hover and compare.

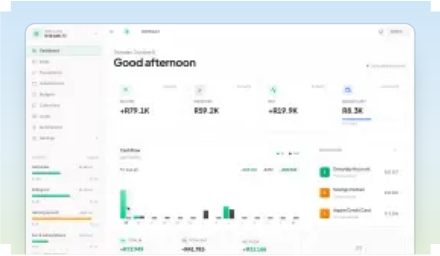
React · TypeScript · D3 · liltui.vercel.app



Glideframe

Screen recorder and editor that makes demos look produced out of the box.

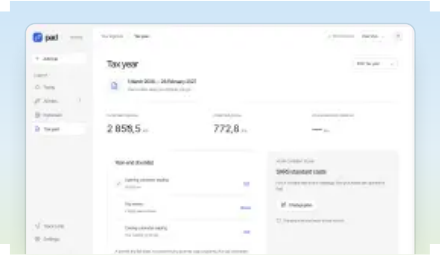
Electron · React · Rust



Align

Personal finance from bank emails: cash flow, budgets, subscriptions.

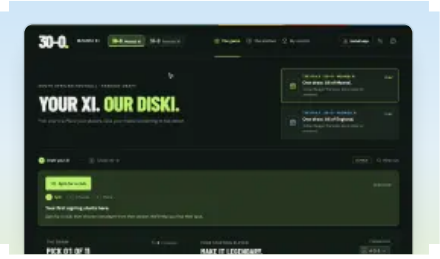
Next.js · SQLite · Recharts



Pad

Local-first SARS trip logbook with PDF and CSV export.

React · IndexedDB · PWA

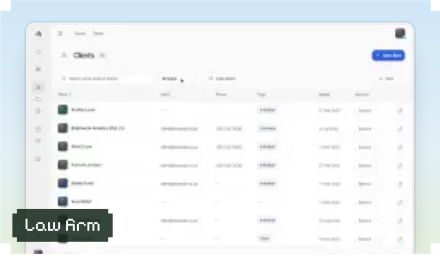


30–0

Football draft game over 30 seasons of real PSL and EPL squads.

React · TypeScript · Vite

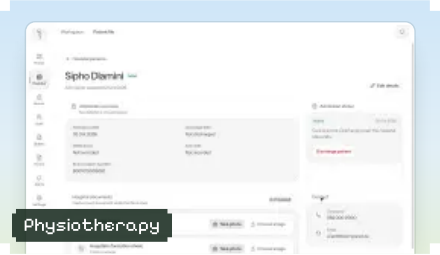
Client apps



Botha Practice Manager

Clients, cases, time capture and tax invoices with PDF output.

Next.js · Firebase · TanStack

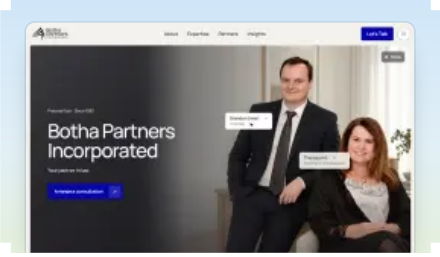


Practly

Patient files, hospital admissions and information sheets.

Next.js · Supabase

Websites



Botha Partners

Editorial website for a Pretoria law firm.

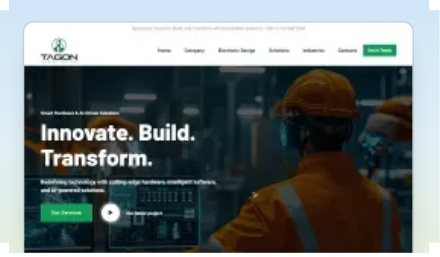
HTML · CSS · JS · bothapartnerswebsite.vercel.app



Africa Building Technologies

Cinematic company site with a product catalogue.

Next.js · Three.js · GSAP · abtv2.vercel.app



Tagon

Industrial technology company website.

Website · tagon.tech