LUKE SMOKER
ARCHITECT · OPERATIONS · CLARITY

Dev Toolbox

2022–PRESENT INTERNAL TOOLS · DEVELOPER EXPERIENCE · FULL-STACK

A mobile-first, self-hosted developer environment built to make real software development possible on the go — with context, planning, editing, and reasoning all in one place.

Screenshots

Self-hosted code editor with project-aware context surfaces and mobile-optimized UX.

Previous | Next

Role

Independent designer and developer

Problem

There were very few reliable ways to develop software on mobile, and existing tools made the workflow feel fragmented, unpredictable, and detached from real project context. I wanted something calmer, clearer, and closer to the way I actually think.

Solution

I designed and built a self-hosted, mobile-first environment centered on the essentials: a clean file editor, integrated logging, and a mobile-optimized block selector for navigating structured code. Over time — guided by real usage and the goal of reducing friction — it evolved to include GitHub and Trello integration, a structured project planner, and an AI context packet downloader.

Tech Stack

TYPESCRIPT REACT VITE SUPABASE POSTGRES GITHUB CLOUDFLARE

- Frontend: React & TypeScript single-page app bundled with Vite.
- Backend & data: Supabase (PostgreSQL + auth) with row-level security and group_id-scoped tables for sprints, sessions, work items, and events.
- Infrastructure: Deployed via Cloudflare Pages and Tunnels for secure access to local services.
- Developer workflow: GitHub for version control, structured logs for sessions/events, and AI context packets that bundle code, schema, and history for explainable reasoning.

At a glance

I designed and built a self-hosted, mobile-first environment centered on the essentials: a clean file editor, integrated logging, and a mobile-optimized block selector for navigating structured code. Over time — guided by real usage and the goal of reducing friction — it evolved to include GitHub and Trello integration, a structured project planner, and an AI context packet downloader.

Impact

By bringing editing, planning, logs, GitHub, and context into one coherent environment, Dev Toolbox reduces cognitive load and restores flow to mobile development. It makes the workflow calmer, more predictable, and more aligned with how people reason about their work.