

# Renan Melo

Product-first engineer • End-to-end systems (tooling UX, backend, desktop distribution) • Web3 auth/licensing • Security & operations

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**Location:** São Paulo, Brazil (remote-friendly)

**LIVE DEMOS** · [snelabs.space](#) · [radar.snelabs.space](#) · (case studies + Evidence Room on portfolio)

## Summary

Self-taught, product-first engineer with an operator mindset. I build and run production systems end-to-end: platform UX (persistent shell, modular navigation), backend and integrations, desktop distribution with local runtime, and wallet-based auth/licensing (signature/SIWE) with session/device control. High signal by default: fewer claims, more proof (artifacts, diagrams, PDFs, and code in the Evidence Room).

## Highlights

- **OS-like web platform:** unified modules under one domain with consistent navigation and a single product context (*control plane*).
- **Operable product surfaces:** persistent *trust surfaces* (Docs/Status/Pricing) to support onboarding, transparency, and operations.
- **Desktop + Web handoff:** local runtime + web onboarding with Browser → Desktop deep-linking and session/device control.
- **Web3 auth/licensing:** wallet connect + SIWE signature + tier/entitlement gating (Free/Pro/Enterprise).
- **Applied security:** explicit guarantees (domain separation, verifiable signals, compromise response, compact threat model).

## Experience & Projects

**SNE Radar — Desktop + Web + Backend** — Independent project (production) — tooling-grade market reader 2025 — Present

[radar.snelabs.space](#) · [portfolio case study](#)

Local desktop runtime · Web onboarding · SIWE / signature auth · Device sessions · Diagnostics / recovery

- Built a desktop app with local runtime and tooling UX, packaged for distribution.
- Web onboarding with signature-based auth (SIWE) and **Browser** → **Desktop handoff** (deep link).
- Device/session control and revocation; diagnostics and recovery layer (crash history + diagnostics bundle).
- Data integrations and an operational layer to support stability, observability, and iterative releases.

**SNE Labs — SNE OS (Web Control Plane)** — Independent project (production) — OS-like console / platform UX 2025 — Present

[snelabs.space](#) · [/home](#) · [/radar](#) · [/pass](#) · [/vault](#)

Platform UX · Modular routing · Trust surfaces · Wallet gating

- Unified multiple modules into an “OS-like” experience with consistent navigation and a persistent layout (single context).
- Built global trust/ops surfaces (Docs/Status/Pricing) to reduce onboarding friction and improve operational clarity.
- Wallet connect + signature flows with tiered access states (Free/Pro/Enterprise).
- Continuous delivery: integration, troubleshooting, validation, and deploy.

[snelabs.space/vault](https://snelabs.space/vault) · [portfolio case study](#)

Dual-kernel

Proof-of-Uptime

AEAD / HKDF

Tamper + zeroization

Governance-ready

- Modeled “trust by technical proof”: domain separation, verifiable signals, and compromise response.
- Defined cryptographic controls (AEAD, HKDF) and tamper detection + zeroization policies.
- Compact threat model and explicit guarantees (domain separation, verifiable signals, compromise response).
- Published artifacts (PDFs/diagrams/evidence) in the Evidence Room.

## Featured Project — SNE Radar

### 10-SECOND SUMMARY

Distributed market-reading system with a **local desktop runtime**, **web onboarding**, and an operational layer for **diagnostics/recovery**, using SIWE signature auth and device/session control.

### LINKS

[radar.snelabs.space](https://radar.snelabs.space) · [renan.snelabs.space](https://renan.snelabs.space) · [github.com/SNE-Labs](https://github.com/SNE-Labs)

### TECH

PYTHON · FLASK · WEBSOCKETS/SOCKETIO · VUE · DESKTOP PACKAGING · SIWE / WALLET SIGNATURE

## Skills

### Product & UX

Platform UX (persistent shell, modular routing, states/tiers), tooling UI, trust surfaces (Docs/Status/Pricing).

### Web Platform

React/TypeScript, SPA routing, module integration, design systems, API-driven UI and state. APIs, auth/sessions, data integrations, WebSockets, debugging and production hardening.

### Backend & Integrations

### Desktop Distribution

Local runtime, packaging/distribution, Browser → Desktop deep links, diagnostics and recovery.

### Web3 (Product)

Wallet connect, SIWE signatures, tier/entitlement gating, on-chain source of truth when applicable.

### Applied Security

Threat modeling, domain separation, verifiable signals, AEAD/HKDF, compromise response.

Selected stack: React/TS, Vue, Python, Flask, WebSockets/SocketIO, Solidity/Scroll L2 (when applicable), Cython (optimization), deploy/ops.

## Education

**Self-taught** — project-driven learning, production delivery, documentation, and rapid iteration.

Interests: platform/devtools UX, reliability/observability as product, applied security, and distributed systems with strong UX.