



MELHOUSEN SOLUTIONS

Product Portfolio

Nine Products. Real Problems. Real Solutions.

From identity and security to AI, education, gaming, and wellness -- Melhousen Solutions builds software that solves problems people actually have. This brochure tells each product's story: the problem it was born from, and exactly how it fixes it.



Secure. Available. Delightful. Excellent.
www.melhousensolutions.com

Our Product Portfolio



TallawahCore

Enterprise identity and access management.



ConsoleSentinel

Autonomous pre-production QA and security scanning.



FowyldAI

Sovereign AI engine -- your intelligence stays yours.



ImaraForge

Enterprise cybersecurity for small and mid-size businesses.



SunSeedKitchen

The plant-based recipe and meal planning platform.



FowyldLabs

Mastery-based digital university for engineers.



HelmcortOS

The founder intelligence dashboard.



ForgeEngine

AAA-competitive game engine. No royalties.



BrawtaCore

3D open-world neighborhood exploration game.

IDENTITY

TallawahCore

Enterprise identity and access management.

A fintech startup ships their MVP. Three months later, a customer shares a link and discovers they can see another company's data. The team scrambles -- patching auth logic at 2 AM, praying nothing else leaks. They needed identity done right from day one. That's what TallawahCore delivers: authentication, authorization, multi-tenancy, and audit logging in a single engine. One deployment. No gaps. No 2 AM panic.

WHAT IT SOLVES

Fragmented identity, inconsistent permissions, tenant data leakage, and months of auth plumbing.

KEY CAPABILITIES

- Authentication (OAuth 2.0, OIDC, SSO, passwordless)
- Role-based access control with tenant isolation
- Immutable audit trails for every action
- API governance with rate limiting and scope enforcement

Built for: Platform engineers, SaaS CTOs, DevOps teams

QUALITY

ConsoleSentinel

Autonomous pre-production QA and security scanning.

Friday afternoon. The deploy looks clean -- tests pass, code review approved. Monday morning: a customer reports their payment page is broken. Turns out a CSS change hid the submit button on mobile. Nobody tested it. Nobody caught it. ConsoleSentinel would have. It scans every commit automatically -- correctness, security, accessibility, performance -- and blocks bad deploys before they reach production. The eye that never blinks.

WHAT IT SOLVES

Missed bugs, late-caught vulnerabilities, manual QA bottlenecks, and compliance evidence gaps.

KEY CAPABILITIES

- Zero-config scanning on every commit and PR
- SAST, dependency scanning, and OWASP validation
- Release readiness gates with go/no-go verdicts
- SOC 2, HIPAA, and PCI-DSS compliance reports

Built for: Engineering leads, QA teams, DevSecOps



Sovereign AI engine -- your intelligence stays yours.

An enterprise architect runs a proprietary algorithm through a cloud AI service. Six months later, a competitor launches something suspiciously similar. Coincidence? Maybe. But the risk was real the moment that data left the building. FowlydAI runs entirely on your infrastructure -- multiple specialized models, automatic task routing, persistent memory. No cloud calls. No data leaves your network. No per-token fees. Sovereign intelligence.

WHAT IT SOLVES

Data sovereignty risks, runaway AI costs, vendor lock-in, and cloud dependency.

KEY CAPABILITIES

- Multi-model engine with automatic task routing
- On-premises or air-gapped deployment
- Persistent organizational memory
- Unlimited usage on your own hardware

Built for: CTOs, AI teams, security-conscious enterprises

Enterprise cybersecurity for small and mid-size businesses.

A 40-person accounting firm gets hit with ransomware. They had antivirus -- but no real security posture. No vulnerability scanning. No compliance evidence. Their cyber insurance claim is denied because they can't prove due diligence. ImaraForge changes that. Lightweight agents scan your endpoints continuously, flag risks in plain language, and generate compliance evidence automatically. Enterprise protection without the enterprise price tag.

WHAT IT SOLVES

Invisible vulnerabilities, compliance blind spots, jargon-heavy security tools, and unaffordable SOC teams.

KEY CAPABILITIES

- Agent-based endpoint scanning (Windows/Linux)
- Plain-language risk reports with remediation steps
- Real-time compliance dashboards (SOC 2, HIPAA, PCI-DSS)
- Multi-tenant management for MSPs

Built for: SMB owners, IT managers, MSPs, compliance officers

The plant-based recipe and meal planning platform.

A father of three decides to go plant-based after a health scare. He searches online -- and drowns in ad-cluttered recipe sites, conflicting nutrition advice, and meal plans that require ingredients he's never heard of. He gives up by Wednesday. SunSeedKitchen meets people where they are: curated recipes, auto-generated meal plans, one-tap shopping lists, and nutrition tracking that actually makes sense. Plant-based living, made sustainable.

WHAT IT SOLVES

Overwhelm from starting plant-based, unreliable nutrition data, and unsustainable meal planning.

KEY CAPABILITIES

- Curated plant-based recipe library with verified nutrition
- Auto-generated weekly meal plans
- Shopping lists organized by grocery aisle
- Premium nutrition tracking and exclusive content

Built for: Health-conscious consumers, plant-based beginners, meal planners

Mastery-based digital university for engineers.

A bootcamp graduate lands her first job -- and immediately feels lost. She can build a todo app, but debugging a production database issue? Designing a system that scales? The bootcamp didn't cover that. FowyldLabs bridges the gap with mastery-based learning: you advance by proving competence, not by watching videos. Real code. Real environments. Real skill -- verified and portable.

WHAT IT SOLVES

Skills gaps after bootcamps, video-based learning that doesn't stick, and unverifiable credentials.

KEY CAPABILITIES

- Mastery-based progression (advance by proving skill)
- Executable labs in real environments
- Structured learning paths by specialization
- Verified skill profiles for employers

Built for: Career developers, bootcamp grads, enterprise training teams

The founder intelligence dashboard.

A solo founder juggles seven tools: CRM in one tab, finances in another, patent deadlines in a spreadsheet, compliance docs in a folder he can't find. Important signals drown in noise. A patent deadline slips. A key investor email goes unanswered. HelmCortOS consolidates everything into one AI-powered dashboard: finance, compliance, marketing, patents, funding, CRM. One login. One view. Complete control.

WHAT IT SOLVES

Tool sprawl, missed deadlines, scattered business intelligence, and founder burnout.

KEY CAPABILITIES

- Unified operations across all business functions
- AI-powered trend analysis and document review
- Patent and funding pipeline tracking
- Automated compliance monitoring and alerts

Built for: Founders, solo operators, small business owners

AAA-competitive game engine. No royalties.

An indie studio ships their first hit on a major engine. The royalty check arrives: 5%% of gross revenue. On a \$2M game, that's \$100K gone -- before taxes, before marketing, before the team gets paid. They needed AAA power without the AAA tax. ForgeEngine delivers modern rendering, AI-native graphics, and cross-platform builds with transparent licensing and zero revenue share.

WHAT IT SOLVES

Engine royalties, vendor trust erosion, lack of modern rendering in indie-accessible tools.

KEY CAPABILITIES

- Multi-API rendering (Vulkan, Metal, DX12)
- AI-native upscaling and smart quality scaling
- Cross-platform: PC, console, and mobile
- No royalties -- transparent licensing

Built for: Game studios, indie developers, graphics engineers

3D open-world neighborhood exploration game.

Every open-world game hands you a gun. None hands you a neighborhood. Where's the game that celebrates the barbershop debates, the block parties, the hustle and heart of where you grew up? BrawtaCore is that game. A living neighborhood where every character has a story, every block has culture, and your choices shape the community. Build businesses. Form alliances. Host events. No violence required.

WHAT IT SOLVES

The gap in gaming for culturally authentic, community-driven open-world experiences.

KEY CAPABILITIES

- Dynamic NPCs with daily routines and relationships
- Player-driven economy and community building
- Caribbean and urban cultural authenticity
- Emergent storytelling -- your choices write the narrative

Built for: Gamers (13+), open-world fans, culture enthusiasts



MELHOUSEN SOLUTIONS

Let's Build Together.

Whether you need identity infrastructure, AI sovereignty, cybersecurity posture, or a game engine with no strings attached -- we build software that works as hard as you do.

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