VERTICAL UNIT

ENGINEERING TEAM PROFILE

Senior Engineering Extension & Custom Software Development

High-load architecture, modern web platforms, AI agent runtimes and security-focused QA

Delivering senior-level engineering and rapid pilot engagements

Registered company — contracts signed worldwide

Remote-first, CET · EU & US overlap

Reply within one business day

Core engineering stack

Four disciplines, one team — no hand-offs between vendors

Backend & microservices

Fault-tolerant service architecture and a tuned data layer that scales predictably.

- PHP 8 (Laravel)
- C# (.NET Core)
- Node.js (Express, NestJS)
- Python (FastAPI)
- PostgreSQL
- Redis
- Microservices architecture

Frontend & Web3

Product interfaces and dashboards that stay responsive on real production data.

- TypeScript
- React.js
- Next.js
- Redux Toolkit
- Ant Design
- Material UI
- Web3 integrations

AI systems & automation

Autonomous agents wired into real business processes — not demo chatbots.

- Multi-agent AI runtimes
- JWT-secured prompt pipelines
- LLM workflows
- Custom Telegram / Slack integration bots

Security & quality assurance

Every release checked for regressions and authorization holes before it ships.

- Automated API testing (NUnit, RestSharp, Playwright)
- RBAC
- Cookie / session security
- Multi-tenant data isolation

Pilot sprints

Test the team before committing to full-scale development

TYPICAL PILOT SCOPES

€1,000

fixed scope · from

1–2

weeks · start to result

Architecture & performance audit

Deep-dive code review, SQL query refactoring, Redis caching layer.

Speed & response optimization

Eliminating backend bottlenecks, reducing payload latency and API delays.

AI & automation prototypes

Rapid multi-agent AI workflows, webhooks or integration gateways.

Design-to-dev handoff

Complex UI/UX, front-end state management and animation — without degrading under load.

GOAL

Verify our senior engineering quality on a focused task before committing to full-scale development.

Client names withheld under NDA — architecture and numbers are real

16s → 4s

server response

European travel ecosystem

High-load web platform

CHALLENGE

Monolithic backend architecture causing critical server slowdowns.

SOLUTION

Decoupled into modular microservices; optimized PostgreSQL views and a Redis caching layer.

IMPACT

Server response times cut four-fold, holding through peak season load.

25s → <400ms

map render latency

Geospatial & energy analytics portal

Enterprise data visualization

CHALLENGE

Heavy latency during real-time rendering of complex geospatial map flows.

SOLUTION

Re-engineered data ingestion from synchronous to asynchronous Web API processing with table partitioning.

IMPACT

Rendering latency dropped from 25 seconds to under 400 milliseconds.

Secure by design

AI state machine

Multi-agent AI runtime system

AI state-machine architecture

CHALLENGE

Secure prompt execution plus background state-machine orchestration across long-running agent sessions.

SOLUTION

Node.js and PostgreSQL room runtime with JWT-signed prompt envelopes and heartbeat TTL debt queues.

IMPACT

Prompts stay tamper-proof in transit and agent state survives restarts.

Senior engineering unit profile

Four seniors — the people on your project are the whole company

AR

7+ years

Senior Full-Stack & AI Systems Architect

FOCUS

Backend microservices, complex system design, high-load optimization, multi-agent AI execution.

PHP / Laravel · Node.js · C# / .NET · PostgreSQL

FW

Fullstack Web & Web3 Engineer

FOCUS

End-to-end fullstack development, modern frontend, NestJS backends and Web3 integration.

React · Next.js · TypeScript · NestJS · Web3

QA

5+ years

Security-Minded QA Specialist

FOCUS

Automated API regression suites, authorization boundary validation, session / cookie protection, CI integration.

C# · NUnit · RestSharp · Playwright · RBAC

PM

Project Manager & Business Analyst

FOCUS

Technical specification gathering, Agile workflow management, clear progress reporting, fast presale turnarounds.

Agile · Business analysis · Presale

Quality assurance & engineering standards

The part that decides whether the system survives its second year

01

Security-first engineering

Multi-tenant data isolation and RBAC role validation.

Guarding against session manipulation, access-control bypass and cookie exposure.

02

Automated API & UI verification

Automated API and UI regression suites wired into every CI/CD pipeline.

High-signal, reproducible defect documentation so fixed bugs stay fixed.

03

Containerized infrastructure

Production environments standardized via Docker and Kubernetes.

Delivery through Bitbucket Pipelines and GitLab CI.

What happens after this deck

Send over the task or the pain point as it is. Within one business day you get a technical answer: how we would build it, a rough timeline, and the smallest pilot that proves it — before anyone commits to a full project.

01

Share the task

A short description of the problem is enough. NDA signed first if the details are sensitive.

02

Rough estimate in 24–48h

Scope, indicative budget and timeline, plus the questions that would change them.

03

Pilot sprint from €1,000

One to two weeks, fixed scope, real output — an audit, an optimization, or a working prototype.

Pilot from €1,000

1–2 week fixed-scope sprint

One business day

to a technical answer with a rough estimate

NDA on request

signed before any detail is shared