



CloudLabs

Software that institutions can trust.

We design, build and run identity, government and enterprise platforms — from the first requirement workshop to the production server.

● Verified engineering

About CloudLabs

CloudLabs is a senior software studio building digital identity, government, fintech and enterprise platforms, from business analysis to deployment.

CloudLabs is a compact team of senior specialists. You work directly with the people who design and build your system — no account managers in between.

Key facts

- 15+ years of combined senior engineering
- National-scale identity and regulatory platforms in KSA
- CRM operations for 83,000+ subscribers
- API response times cut from minutes to under a second

Core expertise

Digital identity and trust

Privacy-first authentication, NAFATH integration, identity assurance levels, face verification and consent-based data sharing.

NAFATH · Identity Assurance Levels (IAL) · OAuth 2.0 · JWT · 2FA · face verification

Government and regulated platforms

Registration, licensing and inspection systems built to Saudi PDPL and sector regulations, delivered directly with government stakeholders.

Saudi PDPL · consent management · role-based access · audit dashboards

Full-stack product engineering

TypeScript end to end: Next.js, React, Vue, NestJS, Express and .NET, with fast, accessible dashboards.

Next.js · React · Vue 3 · NestJS · Express · .NET 10 · TypeScript

Infrastructure, data and DevOps

PostgreSQL administration, Docker, Nginx and Linux deployments on cloud, on-premise or edge servers.

PostgreSQL · Docker · Nginx · RHEL · Ubuntu · Elastic stack

Industries we serve

Government and public sector | Transport and logistics | Telecom and ISPs | Fintech and crypto | Banking (identity relying parties) | Food delivery and marketplaces | Real estate | Education and course marketplaces | Oil and fuel logistics | Defense and military ERP

Regions

Saudi Arabia and GCC (primary), Pakistan, North America, international remote.

Services

Eleven services across analysis, engineering and operations. Work with us on one, or have one team carry a system from requirements to production.

Digital identity and authentication

Privacy-first identity platforms where sensitive data stays on the user's device. We build OAuth-style sign-in for relying parties such as banks, delivery and logistics companies, with registration mapped to identity assurance levels.

Government and regulatory platforms

Platforms for registration and activation of drivers, organisations and licences, built to replace fragmented legacy systems with one consistent workflow and clear oversight.

Web application development

Full-stack web applications and portals in Next.js, React and Vue, with NestJS, Express or .NET 10 Minimal API backends, server-side rendering and role-based access.

Custom ERP and CRM

Custom ERP and CRM systems shaped around how your operation works, from requirement gathering and ERD design to billing runs and device integrations for telecom and ISP operations.

Fintech and payments

Payment integrations and financial logic you can reconcile: gateways, webhooks, tax calculation and card-related platforms.

Dashboards and data visualization

Admin and analytics dashboards with Chart.js and amCharts, designed for different roles and tuned to load quickly.

Performance and modernization

We take existing systems that are slow or hard to change and make them faster and easier to maintain, without a risky rewrite.

DevOps, cloud and database administration

Dependable infrastructure for cloud, on-premise or edge: database administration, containerised deployments, reverse proxies, pipelines and monitoring.

Business analysis and solution architecture

We work with stakeholders to understand how the business runs today, define what it should do, and design the solution before building starts.

QA testing and technical documentation

Independent testing and clear documentation for web and mobile products, so releases are predictable and users can find answers.

AI-powered products and AI-assisted delivery

Dashboards and tooling around AI voice-bot products, and engineering workflows that use AI assistance to shorten delivery time.

Work

Anonymised case studies from production systems. We do not name clients; the problems and outcomes are real.

Privacy-first identity for relying parties

Sensitive identity data stays in secure device storage; relying parties receive verified identity.

Unified driver portal for a Saudi transport regulator

Two legacy systems merged into one, with NAFATH login and 1,300+ active Android users.

ERP/CRM for a national internet provider

Subscriptions, billing, leads and device integration for 83,000+ active subscribers.

Fintech backend rescue

Node.js to NestJS migration; API responses cut from minutes to under a second.

Crypto capital-gains tax SaaS

FIFO and short/long-term gains, exchange and wallet integrations, Stripe billing.

Face verification for field inspections

Face registration and verification so a regulator can randomly inspect delivery drivers.

How we work

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| 01 | Discovery | Workshops, BPMN process mapping, requirements and use cases. |
| 02 | Architecture | Data model (ERD), security and compliance plan, estimates. |
| 03 | Build | Two-week iterations tracked openly in GitHub Projects or Jira. |
| 04 | Test | Functional, regression and end-to-end testing against acceptance test plans. |
| 05 | Deploy | Containerised releases to your cloud, on-premise or edge servers. |
| 06 | Support | Monitoring, documentation and handover, or ongoing maintenance. |

Engagement models

Fixed-scope project | Dedicated team (monthly) | Architecture/code audit | Rescue and modernization

Overlap with Gulf Standard Time and Arabia Standard Time; remote-first.

Have a platform to build or rescue?

Tell us about it — we reply within one business day.

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