

Robert Szalkai

Senior Full Stack Engineer, frontend-focused · React, React Native, Node.js, TypeScript

Timișoara, Romania · open to remote (EU citizen, CET) · available immediately · +40 743 662 089 ·

robert.szalkai29@gmail.com

robert-szalkai.com · linkedin.com/in/robert-szalkai · github.com/robert-szalkai

PROFILE

Senior full-stack engineer, strongest on the frontend, with 8+ years shipping production web and mobile applications and 4 years of Node.js/Express backend work. At Planerio (doctari group), a workforce-management SaaS used by 2,000+ healthcare locations in Germany, Austria and Switzerland, I owned the absence-management domain end-to-end across the web, backend, mobile and e2e repositories. Available immediately: the Timișoara site closed in August 2026.

EXPERIENCE

Senior Full Stack Developer

Jul 2022 – Aug 2026

doctari group (Planerio) · Timișoara, Romania

Planerio is an AI-powered shift-scheduling, time-tracking and workforce-management platform serving 2,000+ clinics, hospitals and care facilities across the DACH region.

- Owned the absence-management domain across four repositories (web app, Node.js service, React Native app, e2e suite): scoped work directly with product and design in Germany, made the technical design calls, shipped to production.
- Regular reviewer on the absences repositories, onboarded a new developer onto the domain, and co-authored the committed AGENTS.md rulebook that governs coding agents in the codebase.
- Built the absence request lifecycle (create, edit, approve or deny with substitutions, permission-gated access) and rule-based recurring absences, each shipped across frontend, backend and e2e tests.
- Designed and shipped overlapping-absence conflict resolution and bulk import with validation, plus asynchronous processing via AWS SQS and Kafka.
- Fixed a production race condition in concurrent working-days calculations: traced it through AWS CloudWatch logs, resolved it with row locking and retry logic.
- Built the full-year absence calendar as a virtualized grid (TanStack Virtual), so 365 day columns for every employee render and scroll without performance lag. Kept controls keyboard-reachable with accessible names when designs showed bare icons, asserted in tests.
- Shipped large releases as incremental rollouts behind feature flags (GrowthBook). Built the app-wide deep-linking and filter-persistence layer on React 18 useSyncExternalStore.
- Built an AI testing harness for the absence domain: 7 Claude Code subagents that regression-test features through the real UI (Playwright) against a sandbox backend and write evidence reports, each locked to a minimal tool set and a fail-loudly rule.
- Overlapping-absence conflict resolution shipped with E2E validation in the same cycle, in about 2 days instead of the usual 5, because the harness replaced manual clicking through every permission case.
- Ran plan-first, spec-driven delivery: PRD, then vertical-slice issues, then a decisions log, with the agents in the loop from implementation plan to validation run.
- Maintained test coverage across Vitest, RTL, MSW, Cypress and Playwright; contributed to CI (GitHub Actions), localization (7 locales) and the payroll export data model that feeds the DATEV format.

Frontend Web Developer

Feb 2019 – Jul 2022

Cloud Innovations (Coindeck) · Timișoara, Romania

- Core frontend developer on a live crypto-to-fiat exchange (Bitcoin, Litecoin) with users worldwide. Took screens from designer handoff to release, working with business analysts, backend developers and UX designers.
- Migrated the exchange UI from vanilla JavaScript to React in steps on the live product, starting with the buy flow and KYC onboarding, then the remaining screens. SCSS and CSS modules.
- Onboarded and mentored a junior frontend developer through regular coaching sessions and in-depth code reviews.

Software Developer

Feb 2018 – Feb 2019

Nokia · Timișoara, Romania

- Developed the Discovery Center Portal (Angular), which hosts Nokia Mobile Networks' customer operating documentation. The team worked in Agile Scrum.
- Professional football player 2013 – 2017
- Before software. Retrained through the Physics–Informatics program below and moved into development in 2018.

SELECTED PROJECTS

- Freelance work, alongside my full-time role.
- WhatsApp booking assistant for an events business** (2026). LLM assistant plus management SaaS: tool-calling architecture with code-enforced guardrails, WhatsApp Business API, Google Calendar sync. PRD, architecture and compliance specs complete; implementation in progress.
 - NIS2Pass** (2025 – 2026, nis2pass.ro). Co-built and launched a NIS2 compliance SaaS for Romanian companies in a two-person team. React/TypeScript, Supabase, Stripe, Cloudflare.
 - Pago** (2024, pago.ro). Marketing site redesign, Lighthouse 82 to 99. Contributed to the React lotto app.

SKILLS

Languages & Frameworks: TypeScript, JavaScript (ES6+), React, React Native, Node.js (Express), HTML5, CSS (Grid, Flexbox)

AI-Assisted Engineering: Claude Code, custom subagents & harnesses, Playwright MCP, Anthropic API (tool use, guardrails), prompt & context design

Backend & Data: Node.js microservices, REST APIs, Express, MySQL, PostgreSQL, MikroORM, Supabase, Kafka, AWS SQS, AWS CloudWatch, Docker, Zod

Frontend: TanStack React Query, React Router, MUI, Tailwind CSS, shadcn/ui, i18next, Vite, accessibility (ARIA, accessible names), performance (virtualization, render optimisation, Lighthouse), PWA

Testing & CI/CD: Vitest, React Testing Library, MSW, Cypress, Playwright, GitHub Actions, Git

Also worked with: Stripe, Cloudflare, GrowthBook (feature flags), Pendo (product analytics)

Languages: Romanian (native), English (C1)

EDUCATION

B.Sc. Physics–Informatics (one-year conversion program) · West University of Timișoara	2017 – 2018
B.Sc. Physics · West University of Timișoara	2010 – 2013