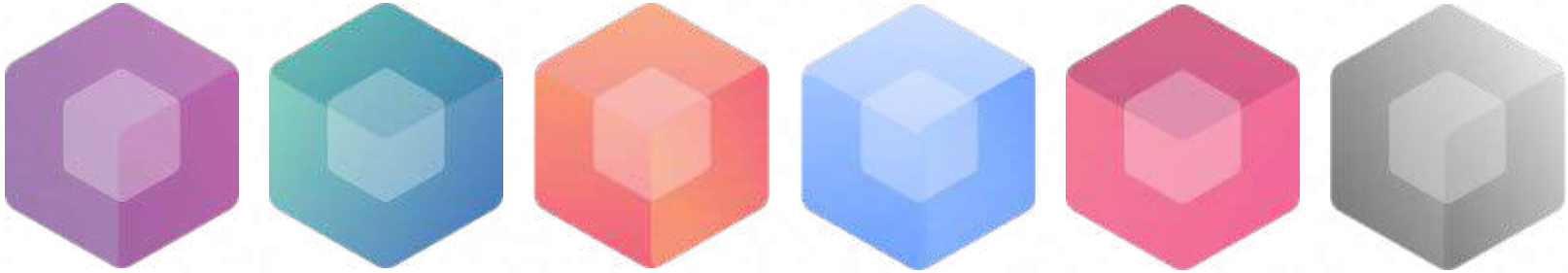
ROVER engineering

Full Business Portfolio Overview

Peter Lomenzo (CEO)

September 2026



Mission

Our main objective is to help businesses, whether a startup or a well established business, to address their technical needs. We want to be an enabler and a technical arm for these businesses.

Overview

Rover Engineering has the expertise and experience to support you.

UK & Europe

Serving organisations across the UK and Europe with scalable, AI-enabled transformation solutions.

Proven Track Record

With over a decade of experience, we have successfully delivered technology solutions across diverse industries, functions, and business models.

Leadership

Our leadership team brings proven delivery excellence across enterprise and growth-stage businesses in B2E, B2B, and B2C environments.

Partnerships

We build strong, collaborative partnerships — working closely with clients and ecosystem partners to create sustainable, long-term value.

Peter Lomenzo
CEO

Peter Lomenzo

Peter brings over 30 years of experience spanning various industries and company sizes. Peter's expertise lies in identifying and addressing the root causes of stagnation, enabling organizations to break free from inertia and gain the momentum needed to achieve their goals.

Peter has worked with global giants such as Amazon, Accenture, and Citi, as well as with nimble startups, Peter has an expertly honed ability to adapt to diverse corporate cultures and navigate complex challenges. This versatility, coupled with his technical acumen and service-oriented mindset, allows him to bridge the gap between technology and business.

Our Specialization

Our primary objective is to help businesses—whether startups or well-established companies—address their technical needs. We aim to be a catalyst and a trusted technical partner for these organizations.

AI and More

- Machine Learning
- Computer Vision
- Neural Networks
- Generative AI
- ERP
- CRM
- BI

Concept to Execution

- Project Management
- System Analysis
- UX Design
- UI Design
- UI Development
- Frontend Development
- Backend Development
- DevOps
- Quality Assurance

Our Valued Clients

A glimpse into the companies we proudly collaborate with.

MedEye.AI

Sidebench

ROVER engineering

EAGLERIDER RENTALS + TOURS

SONY PICTURES

أخبارك akhbarak.net

FOUNDER COLLECTIVE

vodafone

Sarmady a vodafone company

GPTSQUADS

Industries & Functions Delivered

Motorcycle Industry

Delivered eCommerce solutions, reservation systems, CRM platforms, mobile applications, admin portals, business process automation and management, and SEO services.

EAGLERIDER RENTALS + TOURS

News and Sports Apps

Delivered news aggregator platforms and sports applications.

Health care

Delivered patient records management, project management solutions, data governance frameworks, and medical imaging systems.

Sidebench

MedEye.AI

Other sectors

Delivered solutions in group buying, fitness, social shopping, news, real estate, and medical imaging. Example businesses: iTwango, FitMingle, Tisket, YouBlab, Proper, GPTSquads.

FOUNDER COLLECTIVE

GPTSQUADS

Projects and Capabilities Delivered

Below are the categories of projects and capabilities we have successfully delivered, along with selected examples.

Customer Interactions

ChatBots, Reservation Modules, and CRM System

Operational Efficiency

Configuration tools, database management, and contracts management

eCommerce

eCommerce Portals, Finance management, Billing and Invoice system management, and SEO

Service and Fleet Management

Service modules, Availability management modules

Payment Systems

Payment processing integrations. Payout system integrations

Business Tools

Reporting modules, pricing modules, price yield modules

Healthcare Systems & Enterprise Platform Capabilities

Overview of key platform categories, delivered capabilities, and core technology stacks.

Category	Key Capabilities & Impact	Dominant Tech Stack Highlights
🟦 Healthcare systems	HIPAA-compliant platforms including Patient Intake, Cost Transparency, Telemedicine, and Clinical Intelligence. Multi-portal architectures, AI/LLM-assisted diagnosis, OCR document extraction, LLM-powered clinical reasoning, and automated documentation.	React Native · React 19 · Rails 8 · Node.js · Express 5 · NestJS · PostgreSQL · AWS (ECS, Cognito, S3, Textract) · Azure · LangChain · LangSmith · OpenSearch · Terraform · Aptible
🟩 Specialized platforms	Enterprise systems including White Label Mobile (multi-tenant, single codebase), Knowledge Assistant RAG (serverless AI Q&A with source attribution), Content Creation, Online Catalog Management, and Learning Experience with AI coaching and real-time progress tracking.	React Native · Elixir · Phoenix LiveView · Django · Gatsby · GraphQL (Apollo) · Azure Functions · Cosmos DB (Vector Search) · OpenAI (GPT-4o-mini, GPT-4V) · Anthropic · AWS · Firebase · CircleCI · Fastlane
🟧 Analytics & benchmarking	Enterprise analytics dashboard with 16+ interactive chart visualisations, AI-powered Q&A integration, Azure B2C enterprise authentication, and portfolio company performance benchmarking against industry peers.	React 18 · TypeScript · Redux Toolkit · Chart.js · Azure B2C (MSAL) · Vercel Serverless · Statsig · Salesforce · @react-pdf/renderer

Project Examples

Logio – PM Tool with Jira Integrations

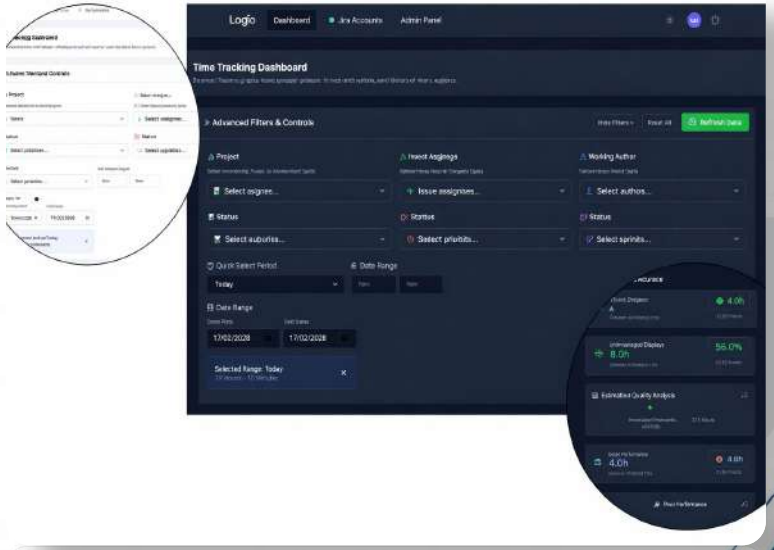
Built an internal performance platform centralizing Jira data with AI-generated executive insights and risk detection.

Benefit
Enhanced delivery visibility and executive-level project insights

Platform
AI-powered Jira analytics dashboard with performance tracking

Role
Product Design, Backend & Frontend Development, AI Integration

Tools
React, TailwindCSS, Ruby on Rails, PostgreSQL, Azure OpenAI, Gemini, Jira API



Calendar Sync

Built a configurable calendar synchronization platform supporting multi-user environments and rule-based scheduling automation.

Benefit

Automated scheduling and improved cross-team coordination

Platform

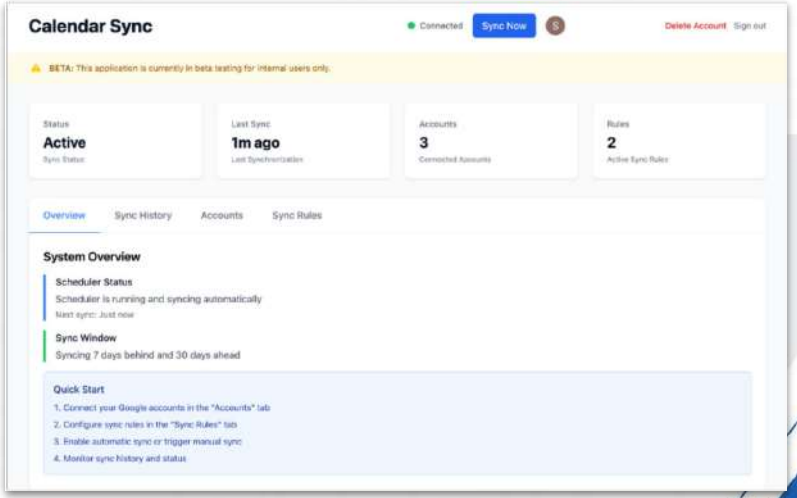
Cloud-native calendar sync engine with rule configuration

Role

Backend Engineering, API Integration, Cloud Deployment

Tools

FastAPI, Google Calendar API, Terraform, Docker, IONOS Cloud



Patient Intake Platform

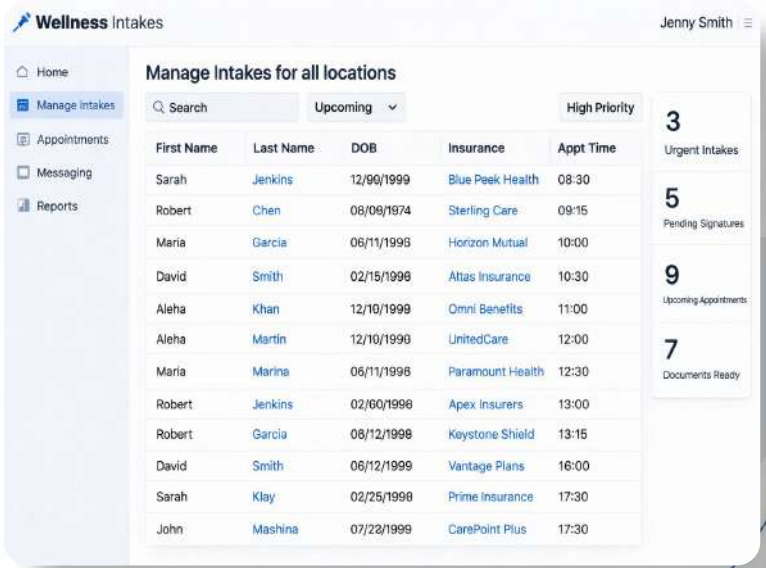
Built a HIPAA-compliant intake management system for a multi-facility healthcare provider, featuring client-facing application portals, document signing, and internal processing workflows.

Benefit
Streamlined patient intake and reduced administrative processing time

Platform
Cloud-based web and mobile platform

Role
Full lifecycle

Tools
Azure (App Service, SQL Database, Blob Storage), React Native, SendGrid, DocuSign



Healthcare Cost Transparency Platform

Developed a HIPAA-compliant full-stack provider search and cost transparency platform with OpenSearch-powered discovery, member portals, and cost data pipelines processing machine-readable files from major payers.

Benefit

Empowered members with transparent healthcare cost and provider information

Platform

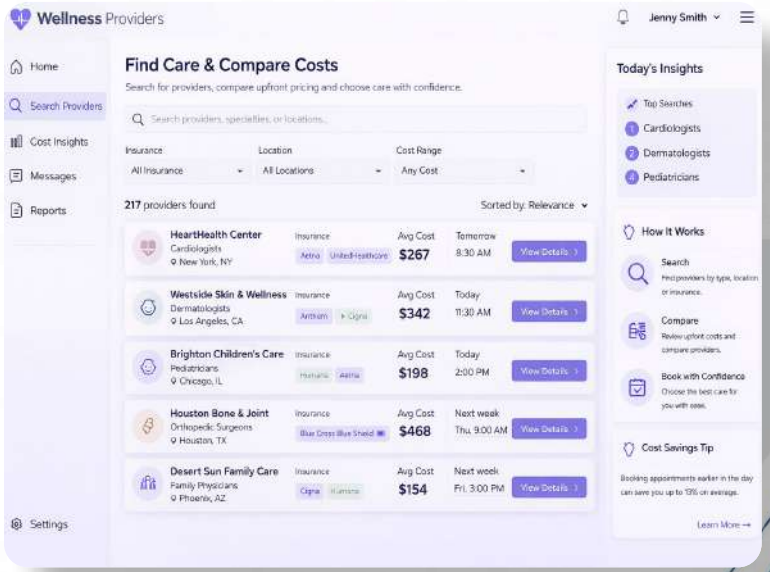
Web application with API and data pipeline infrastructure

Role

Full lifecycle

Tools

Ruby on Rails 8, React 19, TypeScript, PostgreSQL, OpenSearch, AWS (ECS, RDS, Cognito, Lambda), Terraform, Kamal



Telemedicine Consultation Platform

Built a HIPAA-compliant full-stack telemedicine platform connecting patients with providers through a multi-portal architecture, featuring AI-assisted diagnosis, guided photo capture, and treatment plan building.

Benefit

Expanded access to remote care with an intuitive, clinically robust platform

Platform

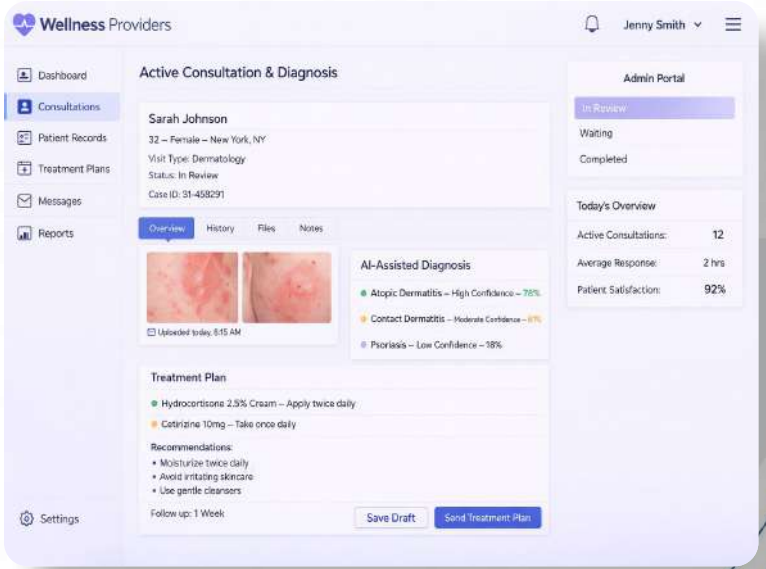
Multi-portal web application (patient, provider, admin)

Role

Full lifecycle

Tools

Node.js, Express 5, React 19, TypeScript, PostgreSQL, TypeORM, AWS (Cognito, S3), Stripe, Aptible, Terraform



Clinical Intelligence Platform

Developed a HIPAA-compliant AI-assisted clinical decision support PWA for clinicians, featuring real-time eligibility determination, AI-driven document extraction via OCR, LLM-powered clinical reasoning, and automated documentation generation.

Benefit

Reduced clinical documentation burden and improved decision accuracy

Platform

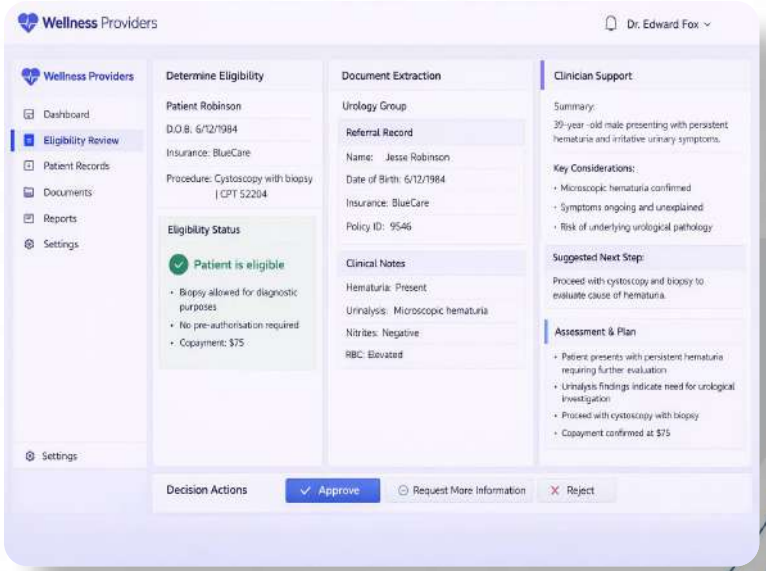
Progressive Web Application (PWA) for clinical use

Role

Full lifecycle, AI Architecture, System Integration

Tools

NestJS, TypeScript, React, React Native (PWA), PostgreSQL, AWS (Cognito, S3, Textract), LangChain, LangSmith, Redis



White Label Mobile App Platform

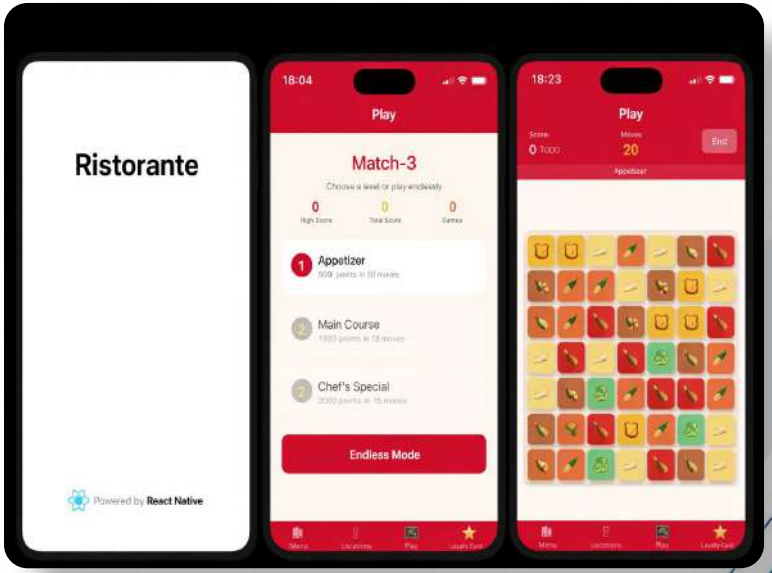
Built a multi-tenant white-label mobile architecture supporting multiple branded app variants from a single codebase, with a configurable theme system and automated CI/CD for App Store and Play Store deployment.

Benefit
Reduced development overhead while enabling scalable multi-brand mobile delivery

Platform
Cross-platform mobile application (iOS & Android)

Role
Mobile Architecture, CI/CD Automation, DevOps

Tools
React Native, iOS, Android, CircleCI, Fastlane



Flixtr

Built a React Native mobile app for discovering, rating, and sharing books, films, TV shows, and audiobooks, featuring AI-powered search, smart image cropping, and a daily auto-curated catalogue of trending titles.

Benefit

Improves content discovery and user engagement through intelligent search, automated catalogue curation, and a polished mobile user experience.

Platform

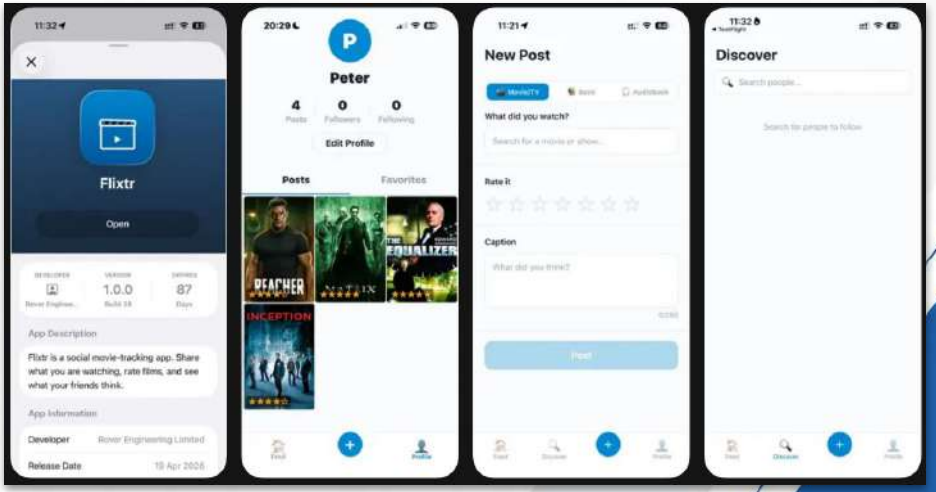
Cross-platform mobile application, available on the App Store.

Role

Mobile app development, AI feature integration, backend/API development, cloud deployment, and test automation.

Tools

React Native, Anthropic Claude API, Cloudflare Workers, D1, R2, Maestro, Jest.



Knowledge Assistant RAG

Developed a serverless AI-powered Q&A system for enterprise knowledge management, retrieving and synthesising information from curated sources including PDFs, figures, tables, and Q&A pairs, with full source attribution and admin portals for content management and conversation monitoring.

Benefit

Improved enterprise knowledge accessibility and reduced time spent searching for information

Platform

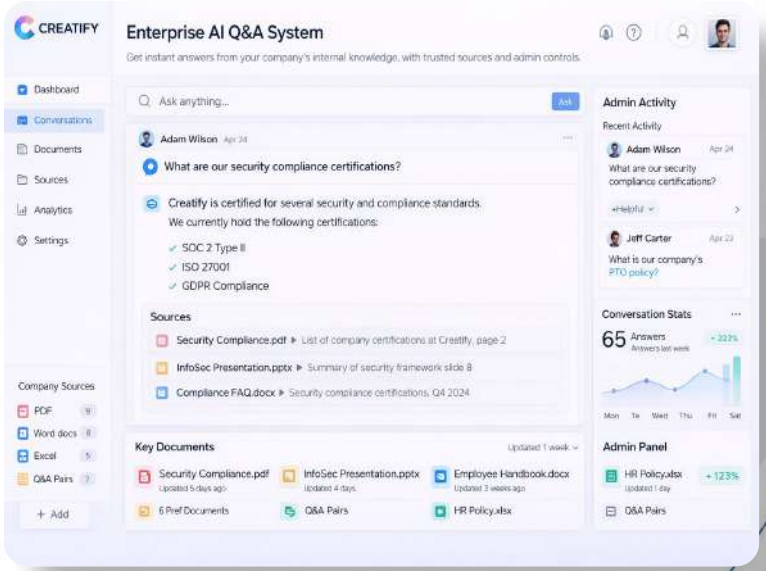
Serverless RAG platform with admin portals

Role

AI Architecture, Backend Engineering, DevOps

Tools

Azure Functions, Cosmos DB (Vector Search), OpenAI (GPT-4o-mini, GPT-4V), Anthropic, Node.js, Bicep IaC



Content Creation Platform

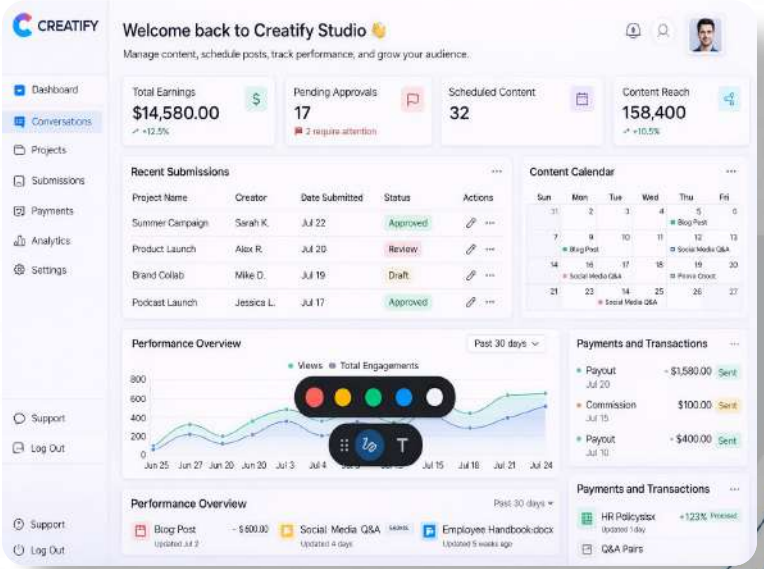
Delivered an end-to-end mobile and web platform for content creators, supporting social account linking, content submission, payment processing, approvals, scheduling, and performance analytics.

Benefit
Streamlined the full content creation and monetisation workflow

Platform
Mobile and web application with creator and admin portals

Role
Full lifecycle

Tools
Django, Celery, PostgreSQL, Expo (React Native), React, TypeScript, AWS (ECS, RDS, Lambda, Amplify), Terraform, Stripe



Online Catalog Management Platform

Built a full-stack platform for online catalog management featuring Gatsby-powered portals and microsites for browsing item catalogs and event schedules, with a serverless GraphQL API for operations, payments, and CRM integrations.

Benefit

Enhanced catalog discoverability and streamlined operational management

Platform

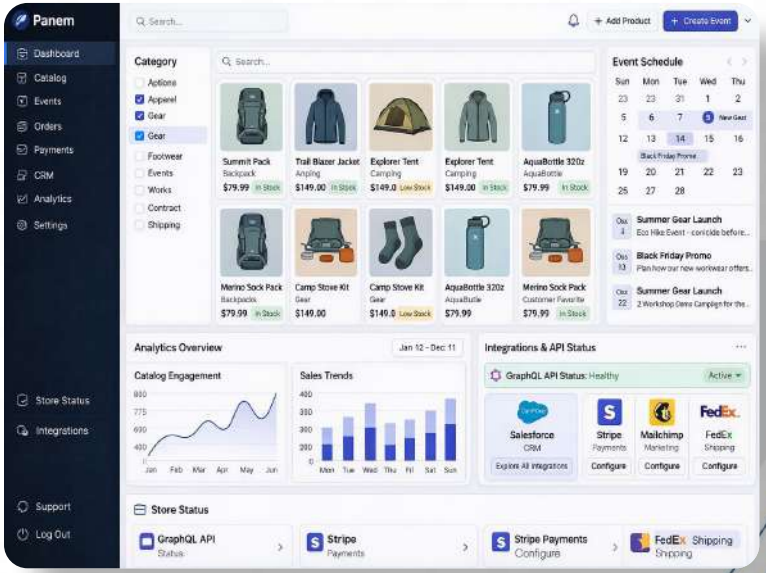
Gatsby-powered web portals with serverless API backend

Role

Full lifecycle

Tools

Node.js, TypeScript, Gatsby, GraphQL (Apollo), AWS (Lambda, S3, SQS, Step Functions), Contentful, Algolia, Auth0, Stripe, Salesforce



Learning Experience Platform

Developed a full-stack corporate learning and development platform with a Phoenix LiveView portal for program management and content authoring, and a React Native mobile app for learner engagement featuring AI coaching, real-time progress tracking, and interactive assessments.

Benefit

Elevated corporate learning engagement and programme completion rates

Platform

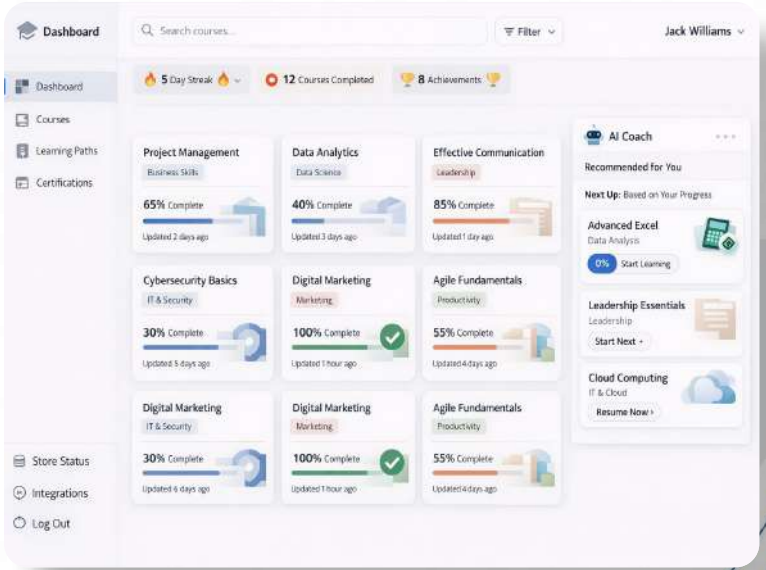
Web portal and mobile application

Role

Full lifecycle

Tools

Elixir, Phoenix LiveView, React Native, TypeScript, PostgreSQL, AWS S3, Firebase, Oban, DocuSign, Azure Language Service



Benchmarking & Analytical Platform

Built an analytics dashboard enabling companies to benchmark their performance against industry peers, featuring 16+ interactive chart visualisations, enterprise authentication, AI-powered Q&A integration, and portfolio company data management.

Benefit

Delivered actionable competitive intelligence through data-driven benchmarking

Platform

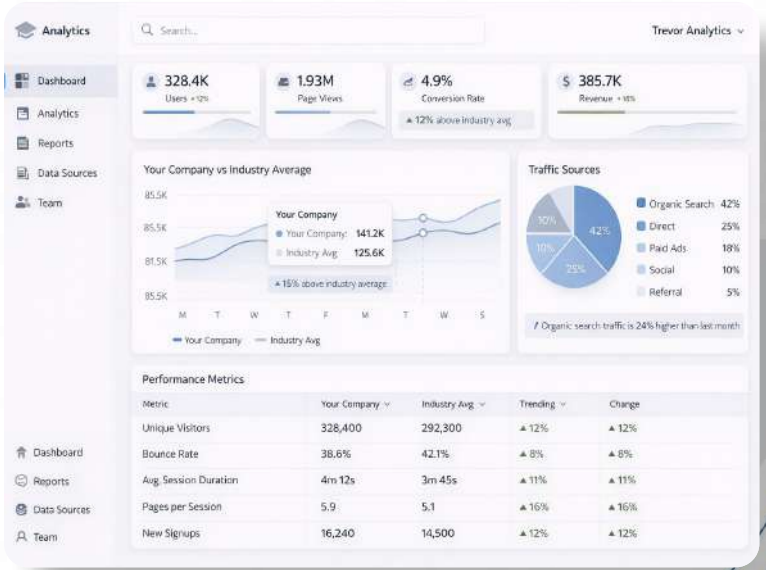
Analytics web application with enterprise authentication

Role

Full lifecycle, AI Integration

Tools

React 18, TypeScript, Redux Toolkit, Chart.js, Azure B2C (MSAL), Vercel Serverless, Statsig, Salesforce, @react-pdf/renderer



Sheep!

Mobile application designed for sheep farmers to track breeding activity, lambing records, and flock performance throughout the season using automated calculations and visual analytics.

Benefit
Simplifies flock breeding management with centralized tracking and automated insights.

Platform
Mobile flock management app for breeding activity, lambing records, and flock analytics.

Role
Mobile development, data architecture, analytics visualisation, and device-to-device data sharing.

Tools
React Native CLI, TypeScript, SQLite, Zustand, React Query, NativeWind (Tailwind CSS), React Navigation, Reanimated

The Kitchen Sink

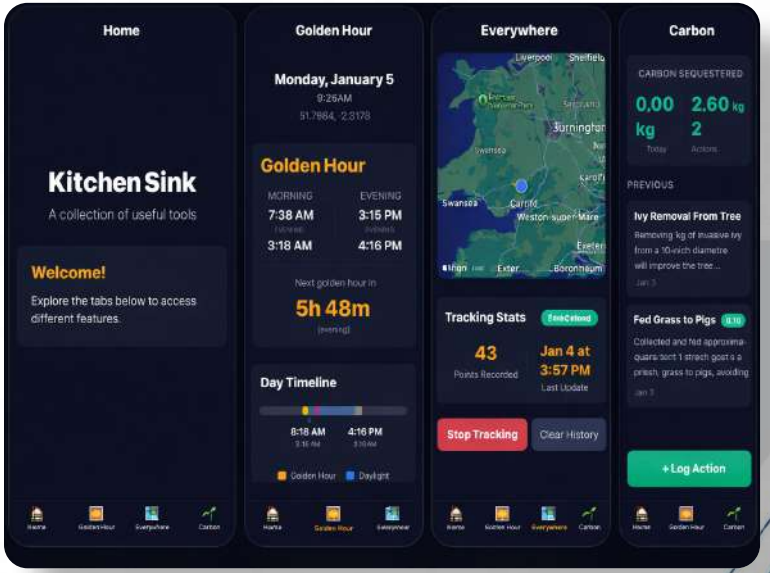
Built a mobile application combining geolocation tools with AI-powered environmental logging features.

Benefit
Delivered consolidated utility features within a single scalable platform

Platform
Location-aware AI mobile application

Role
Mobile Architecture, AI Integration, Geolocation Systems

Tools
React Native (Expo), TypeScript, Anthropic Claude API, Maps API



Too Many Tomatoes

Developed a mobile journaling application with AI-powered plant image analysis and seed packet scanning.

Benefit

Enhanced user engagement through AI-assisted tracking

Platform

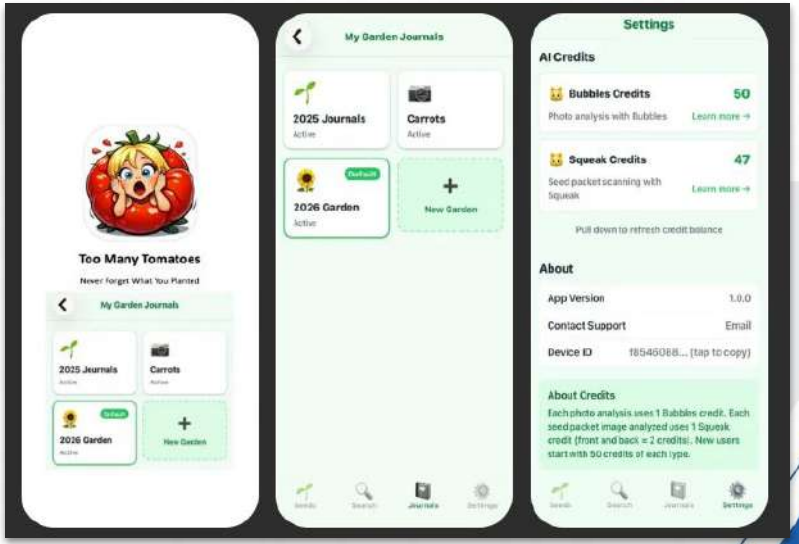
Mobile-first AI journaling application with in-app monetisation

Role

Mobile Development, AI Integration, Backend Engineering

Tools

React Native, FastAPI, Anthropic Claude API, Firebase, StoreKit 2



Rover Planet

Developed a SwiftUI-based mobile application delivering sustainable lifestyle content with push notification integration.

Benefit

Improved user engagement and native mobile performance

Platform

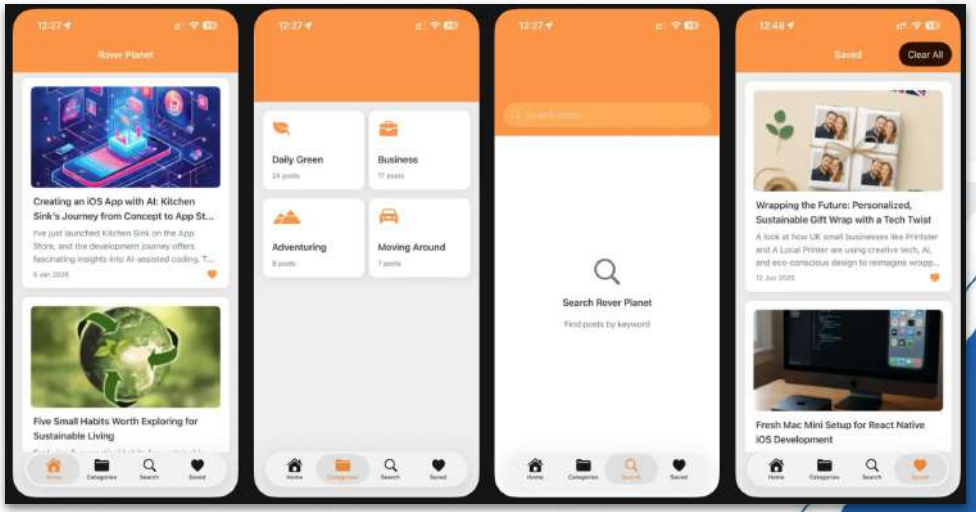
iOS content distribution app integrated with WordPress

Role

iOS Development, Backend Integration, CI/CD Automation

Tools

SwiftUI, WordPress REST API, Firebase, Fastlane



Data Sovereignty: Keeping Control of Your Data

Hosting data in Europe isn't enough if the provider still answers to foreign law.

US access laws

The CLOUD Act and FISA 702 apply to US-owned providers, wherever their servers are.

EU & UK protections

The EU Data Act and UK/EU GDPR set strict rules on who can access data.

Why it matters

Healthcare, finance and public sector clients must show where their data lives and who can reach it.

Less lock-in

Spreading data across more than one provider cuts dependence on a single vendor.

AI chatbots

App, databases and backups run in a UK data centre with IONOS, an EU-headquartered provider.

Our own platforms

Calendar Sync and our three WordPress sites run on IONOS Cloud.

Sources: EU Data Act (Regulation (EU) 2023/2854); US CLOUD Act (2018); FISA Section 702. General information, not legal advice.

WordPress Multi-Site Consolidation

Migrated three production WordPress sites (Rover Engineering, Rover Planet, USYTech) from separate AWS Lightsail instances onto a single, per-tenant IONOS Cloud environment with isolated hosting, automated backups, and repeatable onboarding.

Benefit

Business-user friendly hosting with a repeatable 30-minute onboarding for new sites

Platform

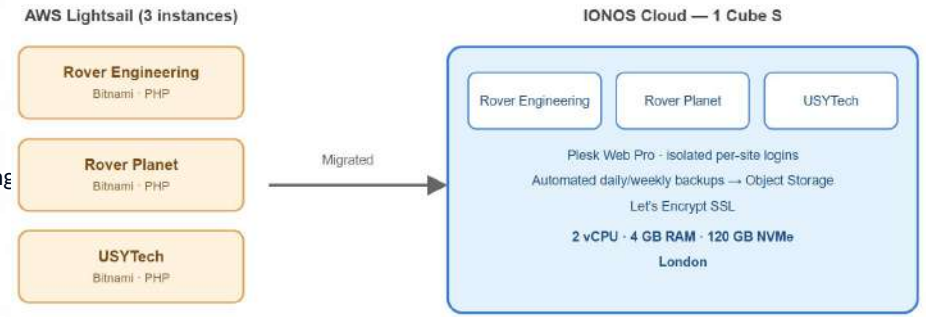
Consolidated multi-tenant WordPress hosting on IONOS Cloud

Role

Infrastructure Migration, DevOps, Automated Testing

Tools

IONOS Cloud (Cube S), Plesk Web Pro, Duplicator, Playwright, IONOS Object Storage, Let's Encrypt



RAG Chatbot Migration: Azure to IONOS Cloud

Migrated a multi-tenant RAG chatbot platform, which answers visitors' questions from each client's own website content, from Azure onto a single IONOS Cloud environment in a UK data centre. The migration took ten days, with no client-side errors.

Benefit

App, databases, vectors and backups now sit with an EU-headquartered provider, for roughly £14 a month all-in.

Platform

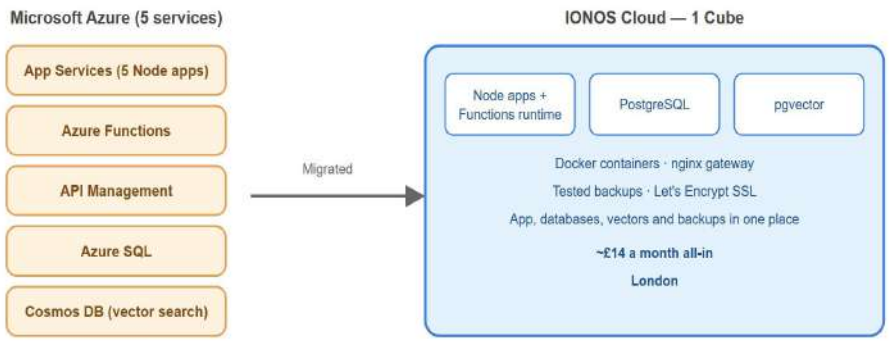
Containerised multi-tenant RAG platform on IONOS Cloud (London)

Role

Infrastructure Migration, DevOps, Data Migration

Tools

IONOS Cloud (Cube), Docker, PostgreSQL, pgvector, nginx, Let's Encrypt, OpenAI



"Thank you for your time!”

"We appreciate your interest and look forward to a successful future partnership."