

Ada Carbon Analytics

Scope 3 reporting platform | Live, with ongoing development

I work across business process mapping, application development and cloud infrastructure. These four projects show recent full-stack delivery alongside earlier engineering leadership and operational improvements.

Business problem

A new company needed a SaaS platform for clients to submit purchase-ledger summaries through a web application or API and obtain Scope 3 emissions reports. Internal analysts supplied the calculation data and requirements.

My contribution

- Mapped application functionality to the business processes the platform needed to support.
- Extended the customer application and built the customer-facing API.
- Built a secured calculation microservice and an administration panel for customers, subscriptions, promotions and data.
- Created the AWS infrastructure and integrated Stripe for subscriptions and purchases.

Delivery and current status

Went live on 8 October 2026. Marketing and customer onboarding are scheduled to begin on 13 October. The Ada Admin application was delivered to production in five days; I am continuing development during launch.

Technology

NestJS, Prisma, React, Tailwind, TypeScript, SQL, Bun, Stripe and Clerk. AWS RDS PostgreSQL, EC2, CloudFront and S3; GitLab CI/CD, Cloudflare and Nginx. Development tool: Cursor.

Access

adacarbonanalytics.com

Select "Online reporting" to reach the customer application. Running reports requires a subscription; a 14-day free trial is available. I can demonstrate the customer application.

White Label Property

My Property Group | Multi-tenant SaaS platform

Business problem

Property sourcing partners needed to market investment deals under their own brands, manage investor leads and earn commission without building or operating their own technology.

My contribution

- Mapped the business processes to application functionality and designed and implemented a resource- and cost-efficient AWS architecture.
- Built the partner application for managing branded products and the administration portal for partners, users, analytics and mailshots.
- Integrated Stripe subscription management.

Outcome

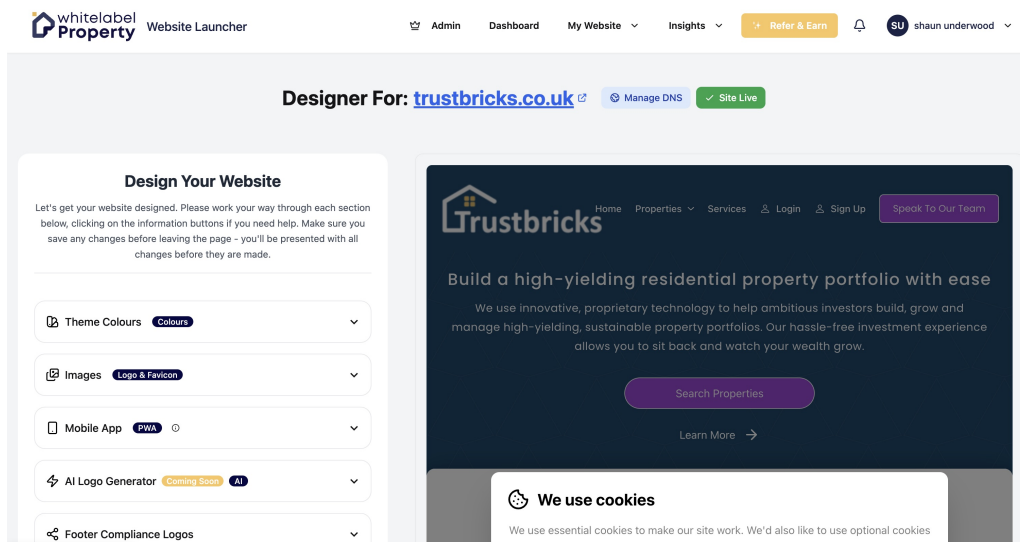
Launched after four months of development. The platform currently has approximately 500 customers paying monthly subscriptions.

Technology

NestJS, Prisma, Vue/Nuxt, React, Tailwind, TypeScript, SQL, MongoDB, Bun and Node.js; Stripe and Clerk. AWS RDS PostgreSQL, EC2, CloudFront, S3, Amplify and Lambda; GitLab CI/CD. Development tool: Cursor.

whitelabelproperty.com

The public website is accessible; I can demonstrate the partner portal.



Partner website designer: brand configuration and a preview of the resulting website.

White Label Academy

My Property Group | Learning management system

Business problem

An in-house learning platform linked to the White Label SaaS product, with included training determined by subscription tier and separately paid content.

My contribution

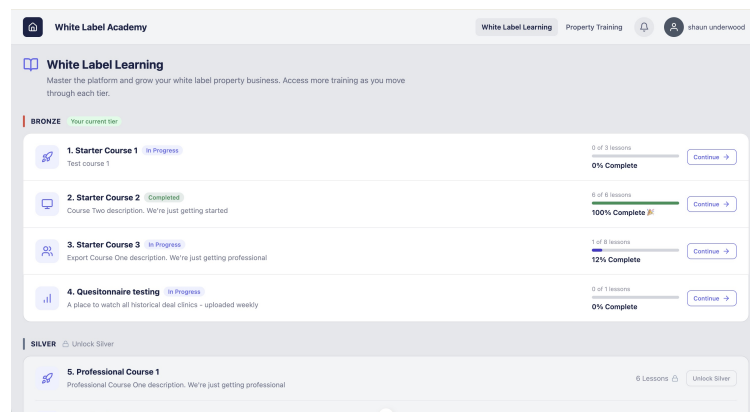
- Analysed the data and functional requirements behind a Lovable prototype and designed and implemented the AWS architecture.
- Delivered full-stack development of the student and teacher applications, including backend services, course creation and course-material versioning.

Outcome and access

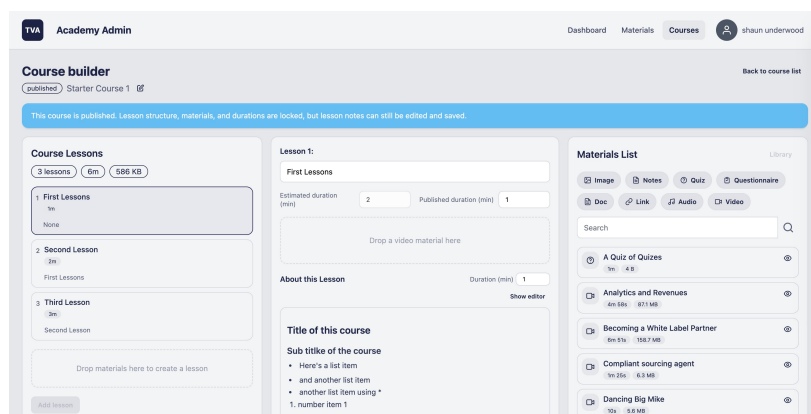
Delivered to staging in five weeks. The system is available to demonstrate by screen share; screenshots below show the student and course-authoring interfaces.

Technology

NestJS, Prisma, Vue/Nuxt, React, Tailwind, TypeScript, SQL, MongoDB, Bun and Node.js; Stripe and Clerk. AWS RDS PostgreSQL, EC2, CloudFront, S3, Amplify and Lambda; GitLab CI/CD. Development tool: Cursor.



Student interface: tier-based course access and progress tracking.



Teacher interface: course structure, lesson materials and publishing controls.

Fantastec SWAP

Hands-on CTO | Licensed sports collectibles and blockchain

Business problem

Create an engaging fan experience using licensed sports media and blockchain-based ownership, while supporting content operations and a scalable engineering platform.

My contribution and outcomes

- Led a team of seven engineers as hands-on CTO, overseeing engineering delivery while contributing directly to architecture and implementation.
- Designed the migration of 3 million NFTs from a private to a public blockchain. The migration system was built in two months; migration ran over four months, with both ownership systems operating concurrently and existing functionality continuing without interruption.
- Led the mobile application rebuild through phased delivery over five months, with direct blockchain connections. Navigation between pages in the app improved from approximately 20 seconds to under 200 milliseconds.
- Oversaw engineering adaptations for FCA regulatory requirements and designed and built a company-wide content management system to streamline operations and reporting.
- Reduced monthly AWS costs from £24,000 to £1,000 through architectural changes and service consolidation.

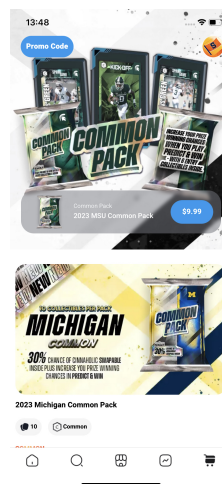
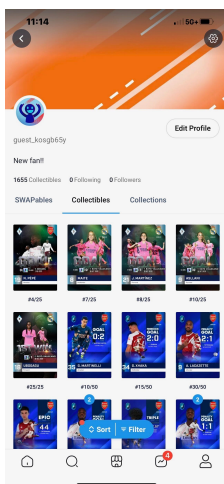
The migration succeeded and the accompanying secondary markets launched on 31 December. Fantastec subsequently ceased trading; live applications are no longer available. Selected retained screenshots are shown below.

Selected technology

AWS serverless services, Kubernetes, Flow blockchain, Android and iOS applications. These are highlights from a broader technology stack used across multiple projects.

[Flow: Fantastec SWAP migration background](#)

[Interstate: app version in place when I joined](#)



Rebuilt application: collectibles library (left) and in-app shop (right).