

# Adriana Paiva

## Backend Software Engineer

Faro, Portugal

[Email](#) | [LinkedIn](#) | [GitHub](#)

## Summary

**Backend Software Engineer** with strong **experience** building and operating **API-driven systems** in **Node.js** and **TypeScript**. Specialised in backend **architecture**, **data modelling**, **business logic**, and reliable **deployment pipelines** for real commercial platforms. Proven **ownership** of backend systems end-to-end, including pricing engines, payments, analytics integration, and internal tools, with hands-on responsibility for **CI/CD** and staged production releases.

## Work Experience

### Software Engineer, Céu Construction

Portugal | Aug 2025 – Present

- Backend owner for the AMR Machinery Rental platform, designing and maintaining Node.js and TypeScript services for bookings, pricing, deposits, delivery rules, and invoicing, reducing manual administration by **~40%**.
- Implemented and operated Stripe-integrated payment flows and revenue tracking pipelines, enabling reliable transaction processing and attribution of **~35%** of monthly revenue.
- Owned PostgreSQL data models, CI/CD pipelines, and staged production releases, supporting **zero-downtime** deployments and stable operation under growing transaction volume.

### Software Engineer, Bravera Creative

Portugal | May 2023 – Aug 2025

- Built and maintained backend services using Node.js, TypeScript, and Express across several production systems.
- Introduced automated testing (Jest, Playwright) and CI pipelines, increasing test coverage to **~85%** and reducing production defects by **~30%**.
- Standardised backend deployment workflows with GitHub Actions, reducing release time by **~50%** and improving delivery reliability.

### Digital Consultant (Technical Focus)

United States | Apr 2015 – Jan 2023

- Delivered technical automation and data-driven solutions for small businesses, improving operational efficiency and reducing manual processes.
- Implemented server-side logic and integrations supporting analytics, internal tools, and workflow optimisation.

## Projects

### AMR Machinery Rental Platform

*TypeScript, Node.js, Next.js, Prisma, Postgres, Stripe*

- Core backend architecture for a live booking and payments platform used in daily operations.
- Implemented pricing, deposits, discounts, delivery logic, and invoicing workflows.
- Supported stable production releases through CI/CD and staged deployments.

### Task Management API

*Node.js, Express, Redis, MySQL, Docker*

- Built a concurrent task processing system using Redis queues and worker processes, ensuring predictable behaviour under load.
- Designed a relational data model with enforced integrity and automated test coverage (~85%).
- Containerised the system using Docker and Docker Compose to standardise local and deployment environments.

### AI-Powered Nutrition Planning Application

*Node.js, Express, MongoDB*

- Developed backend services for user profiling, rule-based filtering, and recommendation scoring.
- Integrated external ML inference services and optimised API response times through efficient data modelling.

## Technical Skills

**Languages:** TypeScript, JavaScript, Python, SQL

**Backend:** Node.js, Express, REST API design, business logic, data modelling

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**Infrastructure:** CI/CD pipelines, GitHub Actions, Docker, containerised deployments

**Testing:** Jest, Playwright

## Education

**Bachelor of Computer Engineering (In Progress)**

Universidade Aberta, Portugal