

Diogo Cardoso

Software Engineer · Backend, Cloud & Distributed Systems (Go)

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SUMMARY

Software Engineer building cloud-native backends and distributed systems in Go, with full-stack delivery in React/TypeScript and Flutter. Currently on Shell's global EV charging platform (1M+ monthly active users); previously the first backend engineer on an event-driven Azure automation platform used by 1000+ employees.

EXPERIENCE

Software Engineer — Shell (Contract via DEUS) | Mar 2026 – Present

Global EV Charging Platform · Full Stack

- Build Shell's global EV charging platform (1M+ monthly active users, 3M+ transactions per month, 24 countries) in the in-house team that replaced outsourced development.
- Built a Go data-retention purge service that removes ~82K expired records per day.
- Lead the Admin Portal revamp across Go, GraphQL and React/TypeScript: moved validation rules to the backend and shipped subscription cancellation and renewal in 22+ markets.

Tech: Go, GraphQL, gRPC, PostgreSQL, React, TypeScript, Kubernetes, Helm, Gherkin/BDD, Dynatrace

Backend Engineer — DEUS | Nov 2025 – Mar 2026

Cloud-native Automation Platform · Backend

- First and sole backend engineer on a cloud-native platform that turns manual internal tasks into reliable, monitored automated workflows for 1000+ employees across 20+ countries and offices.
- Designed and built the Go orchestrator and event-driven worker engine on Azure Queue Storage, Cosmos DB and Blob Storage, with OIDC authentication, role-based access control and Swagger-documented REST APIs.
- Delivered the first automation (Excel training data to individual PDF certificates stored in Google Drive), cutting the time to issue a workshop's certificates from ~2 hours to 3 minutes (97% less manual processing).

Tech: Go, Azure (Cosmos DB, Queue Storage, Blob Storage, Container Apps), Docker, Terraform, GitHub Actions, OpenTelemetry

PROJECTS

Talqo — AI Language Tutoring App (in progress) | 2026

Personal project · Full Stack · www.diogocardoso.pro/projects/talqo

- Building a voice-first AI language tutor end to end: Flutter app to API Gateway and ALB to a Go service on AWS ECS Fargate backed by PostgreSQL (sqlc), with Cognito sign-in.
- Provisioned the infrastructure as 11 tested Terraform modules, kept cheap by design (scheduled NAT instance, CI within GitHub's free minutes); shared commit and PR conventions across 4 repos via git hooks and CI.

Tech: Go, PostgreSQL, Flutter, Terraform, AWS (ECS Fargate, RDS, ALB, API Gateway, Cognito), Docker, GitHub Actions

Coinllector — Euro Coin Collecting App | 2025

Personal project · Full Stack · [Live on Google Play](#)

- Designed and built the app alone, from UX research and branding to a Flutter app on local SQLite and a companion REST API; ran a 30-person beta across Europe and launched on Google Play with first app revenue.

Tech: Flutter, Dart, Riverpod, SQLite, TypeScript, Express.js, MongoDB, Redis, Figma

NestJS Crash Course — Created and taught an 11-episode course on building REST and GraphQL APIs with NestJS.

SKILLS

Languages: Go, TypeScript, SQL, GraphQL, Python, Dart

Backend: REST, GraphQL, gRPC, Distributed Systems, Event-driven Architecture, Clean Architecture, OAuth 2.0 / OIDC, NestJS, Express, Apollo, Gherkin / BDD, Jest

Cloud & DevOps: Azure (Cosmos DB, Queue Storage, Blob Storage, Container Apps), AWS (ECS Fargate, RDS, API Gateway, Cognito), Docker, Kubernetes, Helm, Terraform, GitHub Actions, OpenTelemetry

Databases: PostgreSQL, Cosmos DB, MongoDB, Redis, SQLite

Frontend & Mobile: React, Flutter, Vue, Tailwind CSS, shadcn/ui, Three.js

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals (AZ-900) · HashiCorp Certified: Terraform Associate (in progress)

EDUCATION

BSc, Web Information Systems & Technologies — Polytechnic of Porto | Sep 2023 – Mar 2026

Best Graduate Award for outstanding academic performance

Associate Degree, Design & Technologies for Mobile Apps — Polytechnic of Porto | Sep 2021 – Jul 2023

LANGUAGES

Portuguese (Native) · English (Professional, Cambridge B2) · French (Elementary, DELF A2) · German (Learning)