

Tiago Queirós

AI Platform Engineer

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SUMMARY

Platform engineer building a cloud-native ML and data workflow platform on AWS. I ship FastAPI services, run Ray and Spark workloads on Kubernetes with KubeRay, and automate infrastructure and delivery with Terraform, Argo and GitHub Actions. Software Engineering graduate from ISEP, Master's in progress.

EXPERIENCE

AI Platform Engineer, Critical TechWorks

Porto, Portugal | Oct 2025 – Present

- Platform APIs: Build production REST services in Python and FastAPI to submit, track and manage ML and data workloads, with Pydantic validation, MongoDB and cron-style scheduling.
- Distributed compute: Operate KubeRay on Amazon EKS (operator, API server, internalized images) running Ray and Spark as RayCluster, RayJob and RayService, with autoscaling and GPU scheduling.
- Orchestration and GitOps: Orchestrate pipelines with Argo Workflows and Argo Rollouts and ship declaratively through Argo CD across dev, test and prod.
- Helm: Author charts for shared ingress and gateway configuration (listeners, TLS, DNS) and platform bootstrap.
- Terraform: Extend layered modules that onboard services (IAM, DNS, gateways, RDS, MongoDB Atlas, S3), released as versioned updates reviewed via plan diffs.
- CI/CD: Design GitHub Actions pipelines for multi-service Docker builds and an image-internalization pipeline into private ECR with dev/prod promotion; reusable composite actions.
- Release and quality: release-please with uv lockfile sync, repos-as-code (branch protection, required checks), ruff, mypy and pytest suites with Kubernetes integration tests.

Star Protégé, Critical TechWorks

Porto, Portugal | Mar 2025 – Oct 2025

- Internship focused on software engineering practices and development fundamentals.

Intern, Hitachi Solutions Portugal

Porto, Portugal | Feb 2024 – Jun 2024

- Curricular internship building business applications with Microsoft Power Apps and Power FX in a professional delivery team.

EDUCATION

MSc Software Engineering, ISEP

Porto, Portugal | 2024 – Present

BSc Software Engineering, ISEP

Porto, Portugal | 2021 – 2024

SKILLS

Cloud (AWS): EKS, ECR, IAM, S3, RDS, MongoDB Atlas, boto3

Kubernetes and Platform: Kubernetes, Helm, Docker, KubeRay, Ray, Spark

Delivery and IaC: Argo Workflows, Argo Rollouts, Argo CD, Terraform, GitHub Actions, Jenkins

Python and Backend: Python, FastAPI, Pydantic, pytest, mypy, ruff, uv, Node.js, Java, Spring

Other Languages: Bash, TypeScript, JavaScript, C, C++, C#, Angular

Databases: MongoDB, MySQL

LANGUAGES

Portuguese (Native), English (Fluent)